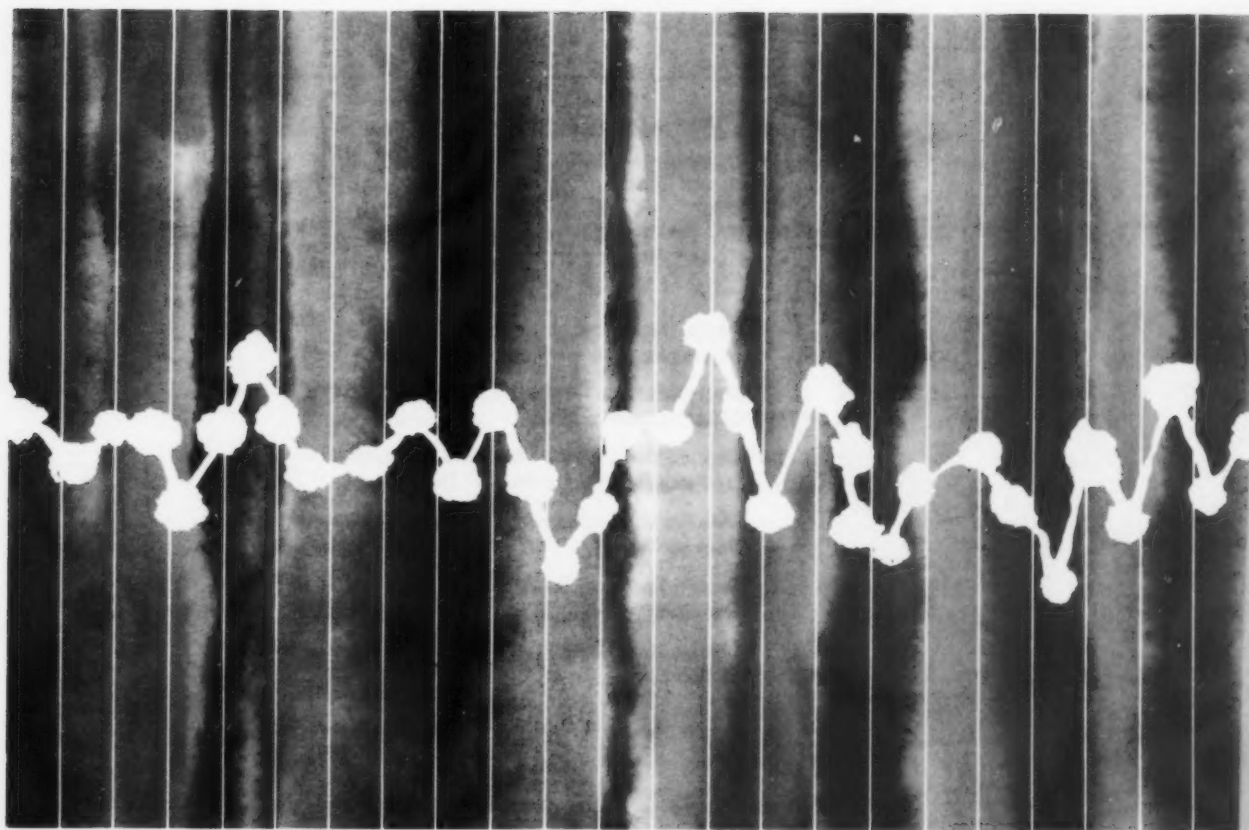


# defense indicators

**MARCH 1976**



U.S. DEPARTMENT OF COMMERCE • BUREAU OF ECONOMIC ANALYSIS



This report was prepared in the Statistical Indicators Division, Bureau of Economic Analysis. Technical staff and their responsibilities for the publication are—

**Barry A. Beckman**—Technical supervision and review,

**Morton Somer**—Selection of seasonal adjustment methods,

**Betty F. Tunstall**—Collection and compilation of basic data.

The cooperation of various government agencies which provide data is gratefully acknowledged.

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The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through September 1, 1977.

## **U. S. DEPARTMENT OF COMMERCE**

### **Elliot L. Richardson, Secretary**

#### **BUREAU OF ECONOMIC ANALYSIS**

**George Jazi**, Director

**Morris R. Goldman**, Deputy Director

**Beatrice N. Vaccara**, Associate Director for  
National Analysis and Projections

**Feliks Tamm**, Editor

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This publication is prepared under the general guidance of an interagency committee established by the Office of Management and Budget. This committee consists of the following persons:

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Office of Management and Budget

**James D. August**, Board of Governors of the Federal Reserve System.

**Murray F. Foss**, Council of Economic Advisers, Executive Office of the President

**Rose Glubin**, Office of Assistant Secretary of Defense (Comptroller), Department of Defense

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# defense indicators

March 1976  
Series ES4 No. 76-3

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gross obligations incurred, gross unpaid obligations outstanding, and net outlays and the procurement component of gross unpaid obligations outstanding.

### Description of Basic Data

The Department of Defense compiles statistics on obligations, contract awards, personnel compensation, and outlays. The DOD obligations and outlays data are based on the Defense Department's monthly *Status of Funds* report which is developed from accounting data and is designed to provide information on the total status of Defense Department financing. Accounts included in this report are aggregated by appropriation categories including personnel costs, operations and maintenance, procurement, research and development, and construction. The *Status of Funds* report duplicates some obligations. That is, obligations of one government unit to another unit are not netted out.

The Defense Department's *Contract Awards* report covers the awarding of procurement contracts. These include obligations for operating and maintenance supplies, equipment and services, research and development, and construction in addition to the obligations for items that constitute the fiscal "procurement" category. The statistics are aggregated by commodity categories including aircraft, missile and space systems, ships, weapons, ammunition, electronics and communication equipment, fuels, and textiles and clothing. The *Contract Awards* report includes procurement for NASA, other nondefense agencies, and the Foreign Military Sales Program which are not included in the *Status of Funds* report.

The Census quarterly new orders, unfilled orders and shipments series for "aerospace industries" are based on reports of companies classified into the following industry categories:

Industry	SIC Code
Aircraft and parts .....	372
Guided missiles and space vehicles, completely assembled ..	1925

The Census and BLS data for "defense products industries" presented in this report cover companies and establishments<sup>1</sup> classified into the following industry categories in accordance with the *Standard Industrial Classification Manual*, 1967 edition, Executive Office of the President, Bureau of the Budget:

Industry	SIC Code
Ordnance and accessories .....	19
Communication equipment .....	366
Aircraft and parts .....	372

Establishments reporting to the BLS are classified into industries on the basis of their principal product or activity as determined from information on annual sales volume, which is collected each year on a supplement to the monthly report. The entire employment of an establishment making more than one product or engaging in more than one activity is included under the industry accounting for the largest percentage of the annual sales of that establishment.

The Census Bureau's monthly survey is based primarily on reports at the company level and the monthly estimates are benchmarked to the establishment data from the *Annual Survey*

<sup>1</sup> An establishment is a single physical location where business is conducted (e.g., a plant). A company often includes more than one establishment.

of Manufactures. Also, many of the large diversified companies file separate divisional reports monthly. Although the reports in the survey are also classified according to their principal product or activity, this difference in the organizational level from which reports are received results in firms being classified into different industries in the BLS and Census surveys and, consequently, limits somewhat the comparability of the data collected by these agencies. However, as we know from past studies in this area, some differences in industrial classification between BLS and Census data would remain even if reports came from the same organizational levels.

Both the Census and the BLS data include a significant amount of nondefense activities carried on by companies and establishments classified in the above industries. For example, the data cover the production of commercial as well as military aircraft. On the other hand, they exclude significant amounts of defense work carried on by companies and establishments classified in industries other than those listed above (e.g., the manufacture of military uniforms and the shipbuilding industry).<sup>2</sup>

Census data for "defense products" are based on separate reports on defense work filed by large defense contractors in the ordnance, communications, complete aircraft, aircraft parts, and shipbuilding industries. Thus, they differ from the "defense products industries" data in that they include defense activity in the shipbuilding industry and exclude nondefense work in the other industries covered. Defense products data cover work for the Department of Defense and exclude contracts for the National Aeronautics and Space Administration and the Atomic Energy Commission.

The DOD data are not strictly comparable in coverage with either the BLS or the Census data since the Defense Department figures (1) cover products of industries not included in the defense products category; (2) generally do not include nondefense activities (except that some series, such as contract awards, include activities by the Department of Defense on behalf of nondefense agencies); and (3) do not cover intermediate activities such as those related to subcontracting and supplying of parts. Thus, the Census Bureau data for manufacturers' new orders and shipments of defense products industries, for example, differ in coverage from the DOD contract awards and net outlays series.

The Department of Defense data are not comparable with Federal Government purchases of goods and services for national defense or the Treasury Department obligations and outlays data since the BEA and Treasury data cover defense-related activities of other agencies such as the Atomic Energy Commission, the Selective Service System, and the Office of Emergency Planning.

Projects to improve the comparability of the data collected by the Bureau of the Census, the Bureau of Labor Statistics, and the Department of Defense and to improve the separation of defense and nondefense activity for the Census and BLS data are being undertaken by the statistical agencies under the leadership of the Interagency Committee mentioned earlier in this report.

<sup>2</sup> See the Bureau of the Census publication *Shipments of Defense-Oriented Industries*, Current Industrial Reports, Series MA-175, for annual estimates of shipments by industry to the Department of Defense, the National Aeronautics and Space Administration, and the Atomic Energy Commission. Included also are industries not covered by the "defense products industries" category.

### Variability of Data

Seasonal variations dominate the movements of many time series, and adjustments for average seasonal fluctuations are often necessary to bring out the underlying trends of the series. These seasonal adjustments allow for the effects of repetitive intrayear variations resulting primarily from normal differences in weather conditions and from various institutional arrangements. An additional adjustment is sometimes necessary for series which contain considerable variation resulting from the number of working or trading days in each month. As used in this report, the term "seasonal adjustment" includes trading-day adjustments where they have been made.

Most of the series in this report are shown in seasonally adjusted form. For Defense Department and BLS series, unadjusted data are also shown since they are not readily available elsewhere. Current seasonal adjustment factors are shown in appendix A.

The effect of seasonal adjustment in reducing the month-to-month variation in the data can be seen in appendix B. There, the first two columns show the average month-to-month percent change (without regard to sign) in the data before and after seasonal adjustment. Some series still show very irregular month-to-month movements after adjustment for seasonal variation. The measures in appendix B also indicate the month-to-month variation in the irregular and short-term trend components of the series. For many series, irregular movements tend to dominate 1- or 2-month comparisons, and the underlying short-term trend becomes dominant in comparisons over longer spans. The "months for cyclical dominance" (MCD) measure estimates the span of months required for the short-term trend to dominate the irregular component. Series with an MCD of 4 or more are supplemented with a moving average (with the

number of terms equal to MCD) in the charts. Data for these moving averages are listed in the basic data tables.

### Guide to Charts and Tables

Most series are plotted on a standard ratio scale so that equal percent changes cover the same vertical distance. For these series, an increase of 100 percent covers approximately 1 inch. Arithmetic scales are used for series with zero or negative data, series which could approach zero (e.g., average overtime hours and layoff rate), and series expressed in percent.

In general, monthly data are plotted with a solid line and quarterly data are represented by a solid line with quarterly plot points. Quarterly series are also identified with a "Q" after their titles. For series which include a moving average, a dashed line is used for the actual monthly data and a solid line for the moving average. (The moving average values are centered within the span of months they are computed from.) Exceptions to this scheme may be necessary for special situations. Data apply to the whole period except for series designated "EOM" (end of month) or "EOQ" (end of quarter). The number in the box at the right of each series indicates the latest month (Arabic) or quarter (Roman) plotted. Parallel lines across a series indicate a break in continuity (e.g., data not available or change in series definition).

Tables 1, 2, 3, and 4 present current data for the series shown in the charts, including the moving averages. They also include unadjusted data for some series and data for related series which are not plotted. Table A summarizes the most recent data and percent changes for many of the series in the report. Historical data are shown on an intermittent basis in appendix C. (The index indicates the appropriate issue for each series.)

### New Features and Changes for This Issue

Appendix C contains historical data for series 200, 200b, 264, 264b, 546, 547, 613, and 696.

-----  
The April issue of DEFENSE INDICATORS is scheduled for release on April 29.

# Table A. Summary of Recent Data and Current Percent Changes for Principal Defense Indicators

(Preliminary and revised figures are not identified here but the user may consult tables 1, 2, 3, and 4 where such identification is given)

Series title	Unit of measure	Basic data								Percent change				Series number
		Average		2d Q 1975	3d Q 1975	4th Q 1975	Dec. 1975	Jan. 1976	Feb. 1976	Dec. '75 to Jan. '76	Jan. '76 to Feb. '76	2d Q '75 to 3d Q '75	3d Q '75 to 4th Q '75	
		1974	1975											
GROSS NATIONAL PRODUCT AND NATIONAL DEFENSE PURCHASES														
200. Gross national product (BEA) .....	Ann. rate, bil. dol. ....	1406.9	1498.9	1460.6	1528.5	1572.9	...	...	...	...	...	4.6	2.9	200
264. Federal Government purchases of goods and services, national defense (BEA) .....	... do ...	77.4	84.0	82.1	84.9	87.4	...	...	...	...	...	3.4	2.9	264
613. National defense purchases as a percent of GNP (BEA) <sup>1</sup> .....	Percent .....	5.5	5.6	5.6	5.6	5.6	...	...	...	...	...	0.0	0.0	613
ADVANCE INDICATORS OF DEFENSE ACTIVITY														
Defense Dept. gross obligations incurred (DOD):														
617. Total .....	Ann. rate, bil. dol. ....	93.9	98.5	98.9	103.7	97.5	95.1	97.6	NA	2.6	NA	4.9	-6.0	617
621. Procurement .....	... do ...	20.6	20.4	19.7	25.7	17.1	17.9	15.9	NA	-11.2	NA	30.5	-33.5	621
623. Gross obligations incurred outside the Federal Government for national defense (Treasury) .....	... do ...	101.1	NA	113.0	107.2	NA	NA	NA	NA	NA	NA	-5.1	NA	623
625. Defense Department military prime contract awards for work performed in the U.S. (DOD) ..	... do ...	41.4	43.3	47.3	48.0	35.9	37.6	40.9	NA	8.8	NA	1.5	-25.2	625
643. Defense Department gross unpaid obligations outstanding (DOD) ..	Bil. dol., end of period ..	40.0	40.9	41.3	42.3	40.9	40.9	40.8	NA	-0.2	NA	2.4	-3.3	643
648. Mfrs.' new orders, defense products (Census) .....	Ann. rate, bil. dol. ....	22.8	21.2	20.8	23.4	18.6	18.0	18.0	19.6	0.0	8.9	12.5	-20.5	648
650. Manufacturers' new orders from the U.S. Government, aerospace industries (Census) .....	... do ...	19.1	NA	15.5	18.4	NA	...	...	...	...	...	18.7	NA	650
653. Average weekly overtime hours, production workers, defense products industries (BLS) <sup>1</sup> .....	Hours .....	2.8	2.5	2.4	2.5	2.5	2.5	2.6	NA	0.1	NA	0.1	0.0	653
654. Accessions, defense products industries (BLS) <sup>1</sup> ..	Number per 100 employees ..	2.1	1.4	1.5	1.3	1.4	1.6	NA	NA	NA	NA	-0.2	0.1	654
655. Layoffs, defense products industries (BLS) <sup>1</sup> .....	... do ...	0.6	1.2	1.3	1.2	0.8	0.6	NA	NA	NA	NA	-0.1	-0.4	655
INTERMEDIATE AND FINAL INDICATORS OF DEFENSE ACTIVITY														
657. Output of defense and space equipment (FRB) ..	1967=100 ....	82.3	81.9	82.7	81.9	80.0	79.7	80.2	80.3	0.6	0.1	-1.0	-2.3	657
659. Mfrs.' inventories, defense products (Census) ..	Bil. dol., end of period ..	6.5	7.8	7.6	7.7	7.8	7.8	7.6	NA	-2.6	NA	1.3	1.3	659
661. Mfrs.' unfilled orders, defense products (Census) ..	... do ...	24.6	25.4	25.1	26.0	25.4	25.4	25.9	24.8	-1.6	-0.8	3.6	-2.3	661
664. Manufacturers' unfilled orders from the U.S. Government, aerospace industries (Census) .....	... do ...	20.7	NA	21.1	20.7	NA	...	...	...	...	...	-1.9	NA	664
666. Defense Department progress payments outstanding (DOD) <sup>1</sup> ..	... do ...	9.2	11.3	10.5	11.0	11.3	...	...	...	...	...	4.8	2.7	666
Employment in defense products industries (BLS):														
670. Total .....	Thousands .....	1,177	1,118	1,132	1,108	1,081	1,075	1,081	1,076	0.6	-0.5	-2.1	-2.4	670
671. Production workers .....	... do ...	618	570	580	563	542	538	543	542	0.9	-0.2	-2.9	-3.7	671
673. Index of aggregate weekly hours, defense products industries (BLS) .....	1967=100 ....	69.4	66.0	66.7	65.6	63.9	63.8	64.0	NA	0.3	NA	-1.6	-2.6	673
675. Index of aggregate weekly payrolls, production workers, defense products industries (BLS) .....	... do ...	98.2	100.5	101.0	101.3	99.6	99.8	100.8	NA	1.0	NA	0.3	-1.7	675
Defense Department personnel (DOD): <sup>1</sup>														
677. Military, active duty .....	Thousands, end of period ..	2,140	2,084	2,128	2,105	2,084	2,084	2,092	NA	0.4	NA	-1.1	-1.0	677
678. Civilian, direct hire employment .....	... do ...	1,043	1,028	1,042	1,030	1,028	1,028	1,023	NA	-0.5	NA	-1.2	-0.2	678
Defense Department net outlays (DOD):														
680. Total, military functions and military assistance .....	Ann. rate, bil. dol. ....	83.6	88.5	83.2	95.0	91.9	92.1	79.6	82.1	-13.6	3.1	14.2	-3.3	680
682. Procurement .....	... do ...	15.5	16.2	15.3	16.5	16.3	17.1	16.6	15.5	-2.9	-6.6	7.8	-1.2	682
683. Budget outlays for the national defense function (Treasury) .....	... do ...	84.8	92.5	86.9	98.0	95.9	97.2	82.5	NA	-15.1	NA	12.8	-2.1	683
685. Defense Dept. personnel compensation (DOD) ..	... do ...	33.5	34.6	34.2	35.3	35.4	35.1	34.5	NA	-1.7	NA	3.2	0.3	685
688. Mfrs.' shipments, defense products (Census) ..	... do ...	18.9	20.4	20.3	19.9	21.1	19.9	22.2	22.8	11.6	2.7	-2.0	6.0	688
689. Manufacturers' shipments to the U.S. Government, aerospace industries (Census) .....	... do ...	15.2	NA	16.2	19.0	NA	...	...	...	...	...	17.3	NA	689
691. Ratio, manufacturers' unfilled orders to shipments, defense products (Census) .....	Ratio .....	14.5	14.9	14.8	15.5	14.6	15.3	13.5	13.1	-11.8	-3.0	4.7	-5.8	691
693. Ratio, manufacturers' inventories to shipments, defense products (Census) .....	... do ...	3.9	4.3	4.2	4.6	4.4	4.7	4.1	NA	-12.8	NA	9.5	-4.3	693
DEFENSE-RELATED BALANCE OF PAYMENTS COMPONENTS														
546. Transfers under U.S. military agency sales contracts—exports (BEA) <sup>1</sup> .....	Ann. rate, mil. dol. ....	2,944	3,981	3,200	4,280	4,648	...	...	...	...	...	1,080	368	546
547. Direct defense expenditures—imports (BEA) <sup>1</sup> ..	... do ...	5,103	4,800	4,836	4,480	4,668	...	...	...	...	...	-356	188	547
696. U.S. Government cash receipts associated with military sales contracts (BEA) <sup>1</sup> .....	... do ...	2,957	4,684	4,168	4,716	5,348	...	...	...	...	...	548	632	696

NOTE: This table is presented as a convenient summary of the current data for many of the indicators in this report. In many cases, data shown here are rounded to fewer digits or are in different units than those shown in tables 1, 2, 3, and 4. Where available, annual figures are those published by the source agencies; otherwise they (and the quarterly figures for monthly series) are averages or totals of the data as shown in the data tables. Series are seasonally adjusted except for those indicated by <sup>1</sup>, which appear to contain no seasonal movement.

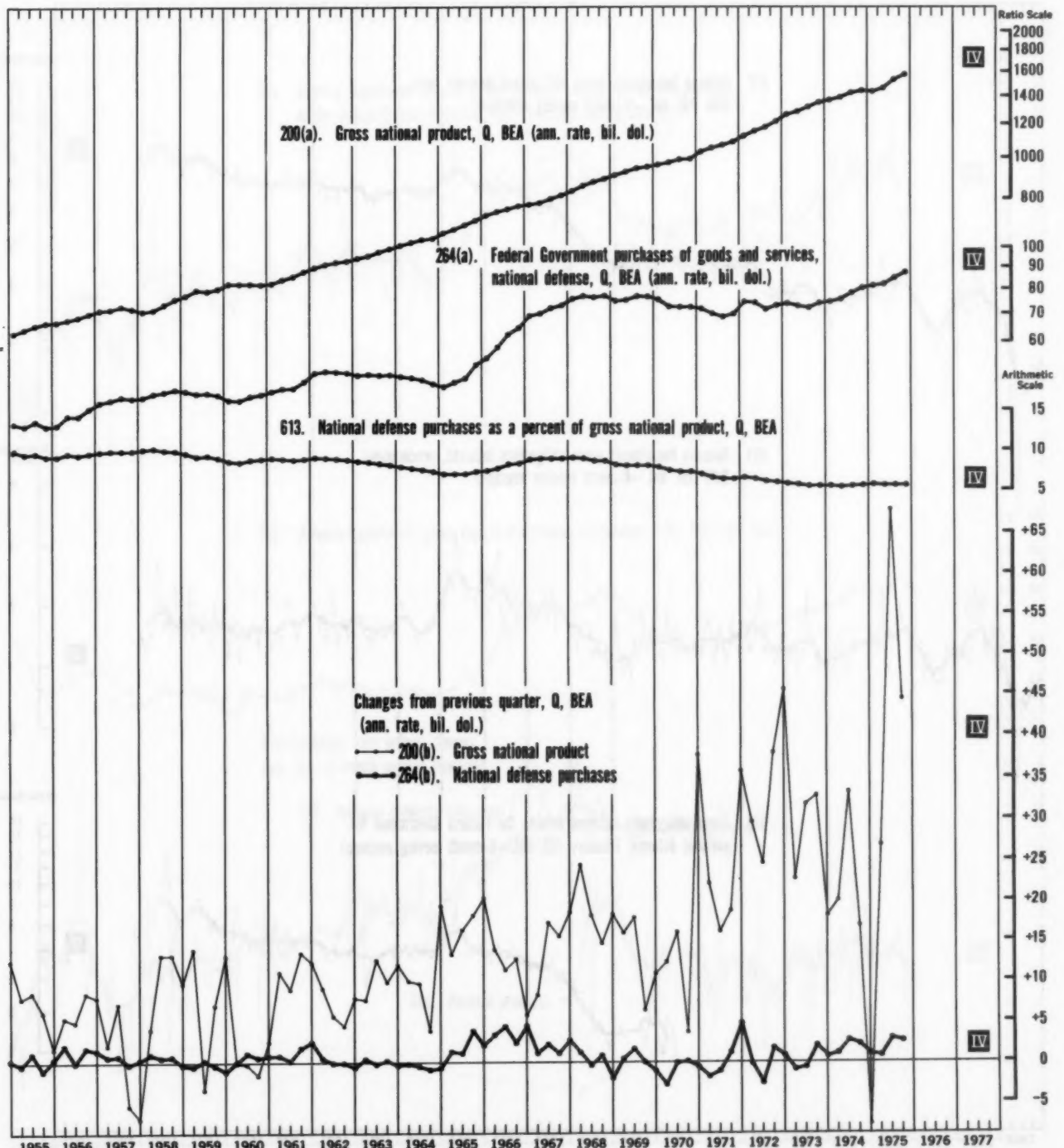
NA = not available. <sup>2</sup>Differences rather than percent changes are shown for this series.



CHART

1

# Gross National Product and National Defense Purchases



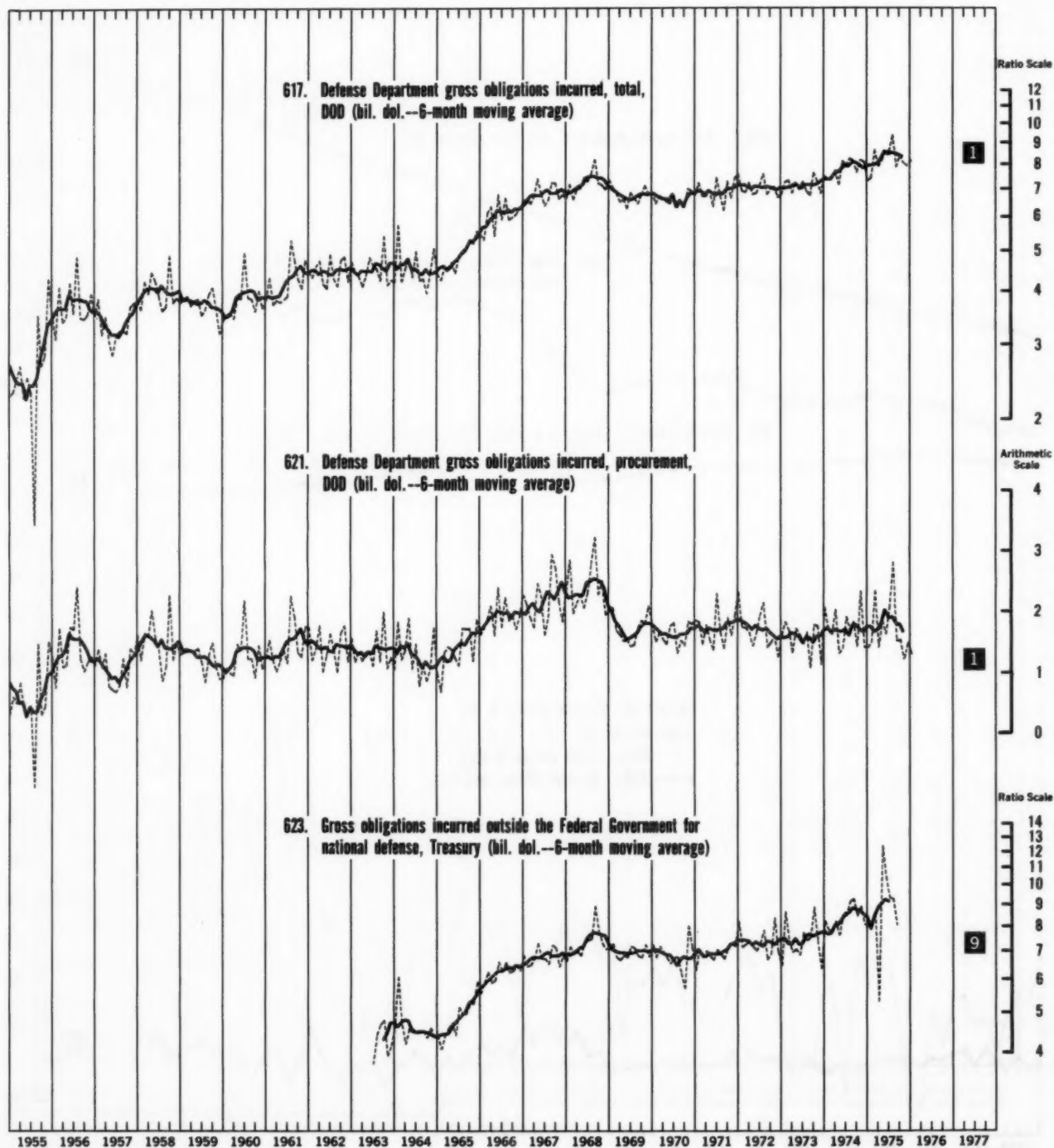
Current data for these series are shown on page 14.



CHART

2

## Advance Indicators of Defense Activity

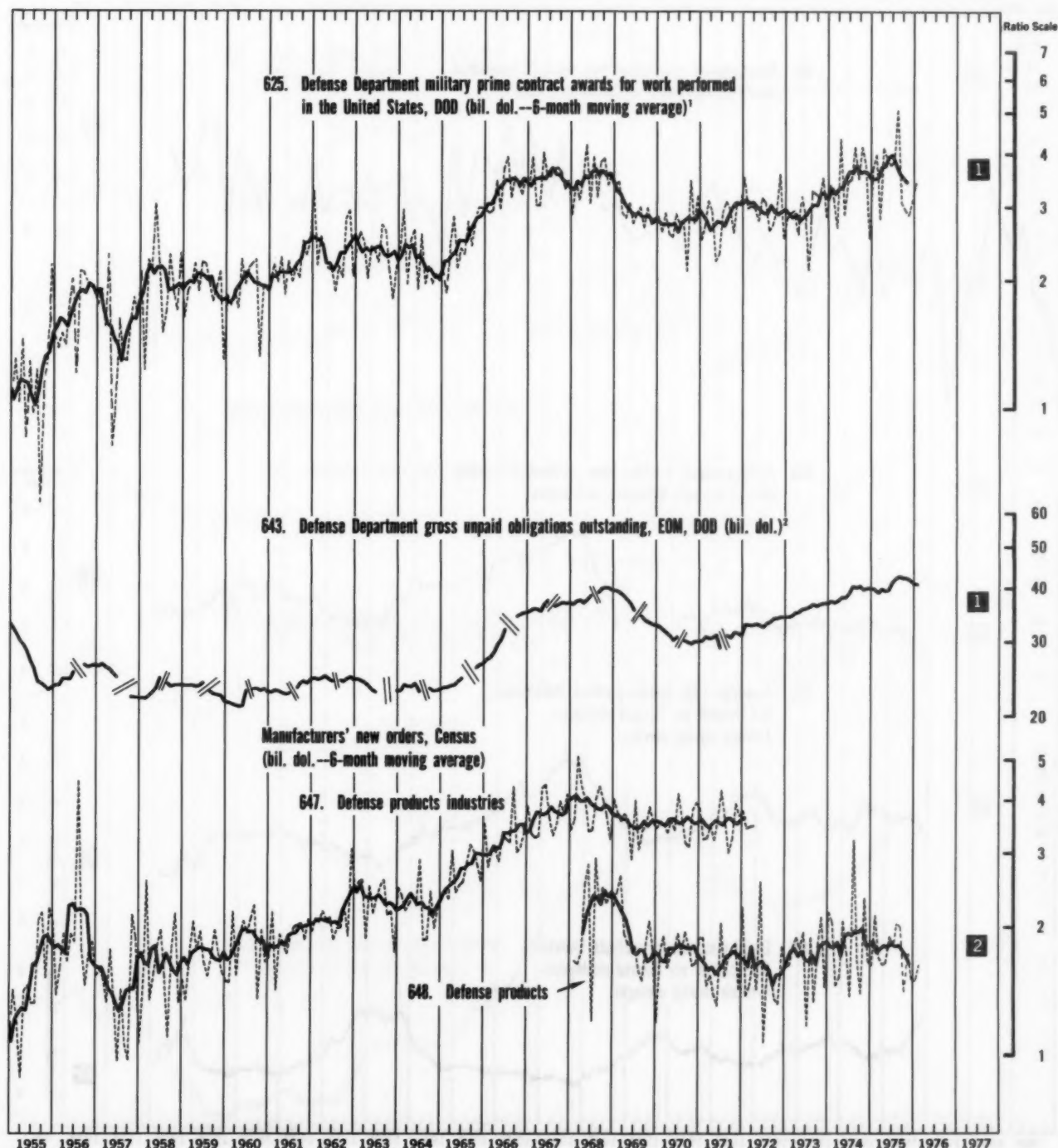


Current data for these series are shown on pages 15 and 16.

CHART

2

# Advance Indicators of Defense Activity--Continued



<sup>1</sup> Data prior to July 1955 exclude orders written to other Government agencies.

<sup>2</sup> Data for the following months not available: July of 1956-71; August of 1956-57 and 1963-66; September of 1957, 1963, and 1965; and October and November of 1963. Current data for these series are shown on pages 16 and 20.

CHART

2

# Advance Indicators of Defense Activity--Continued

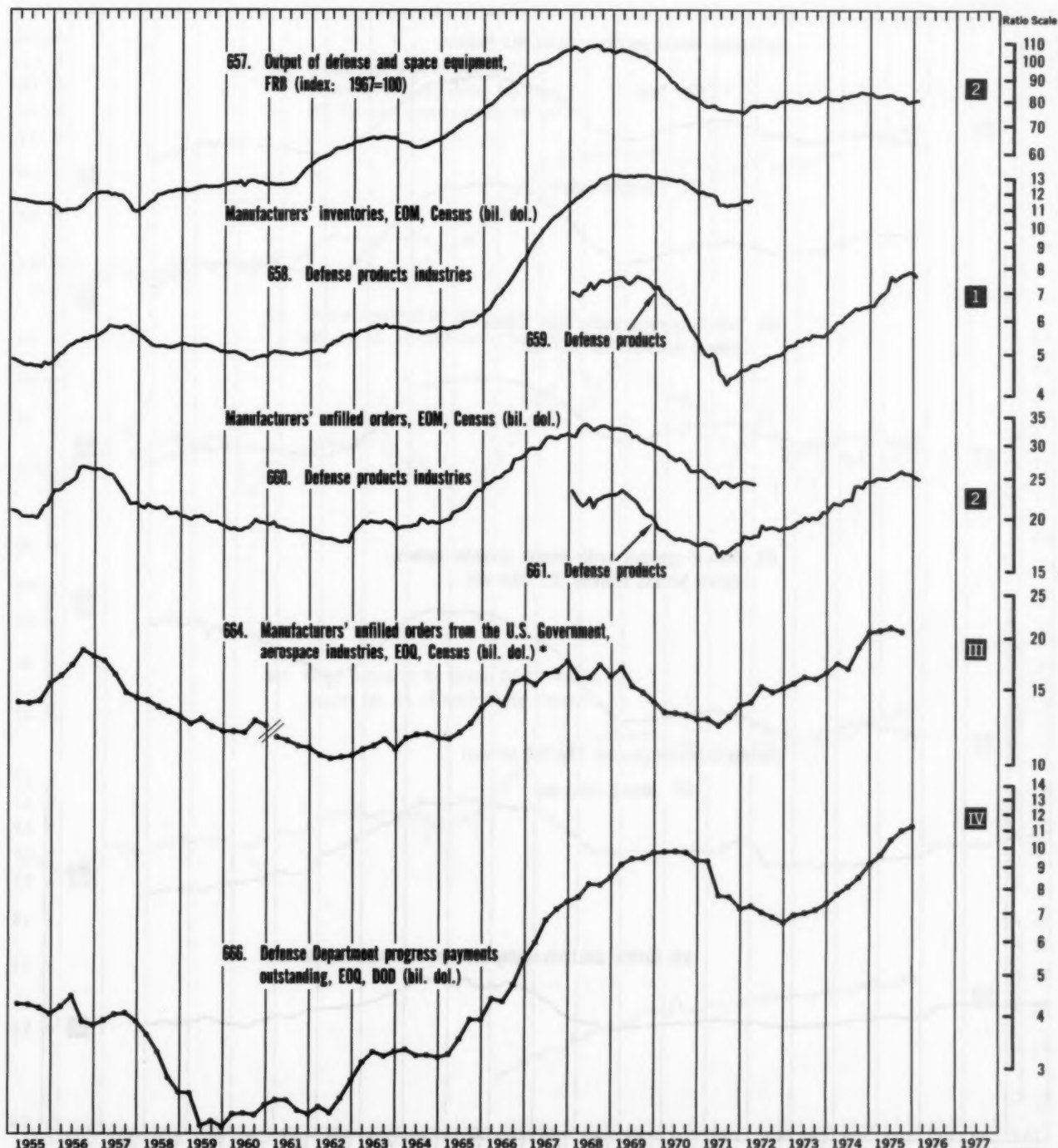


\*Data prior to 1961 include orders from non-Government customers. Current data for these series are shown on pages 20 and 21.

CHART

3

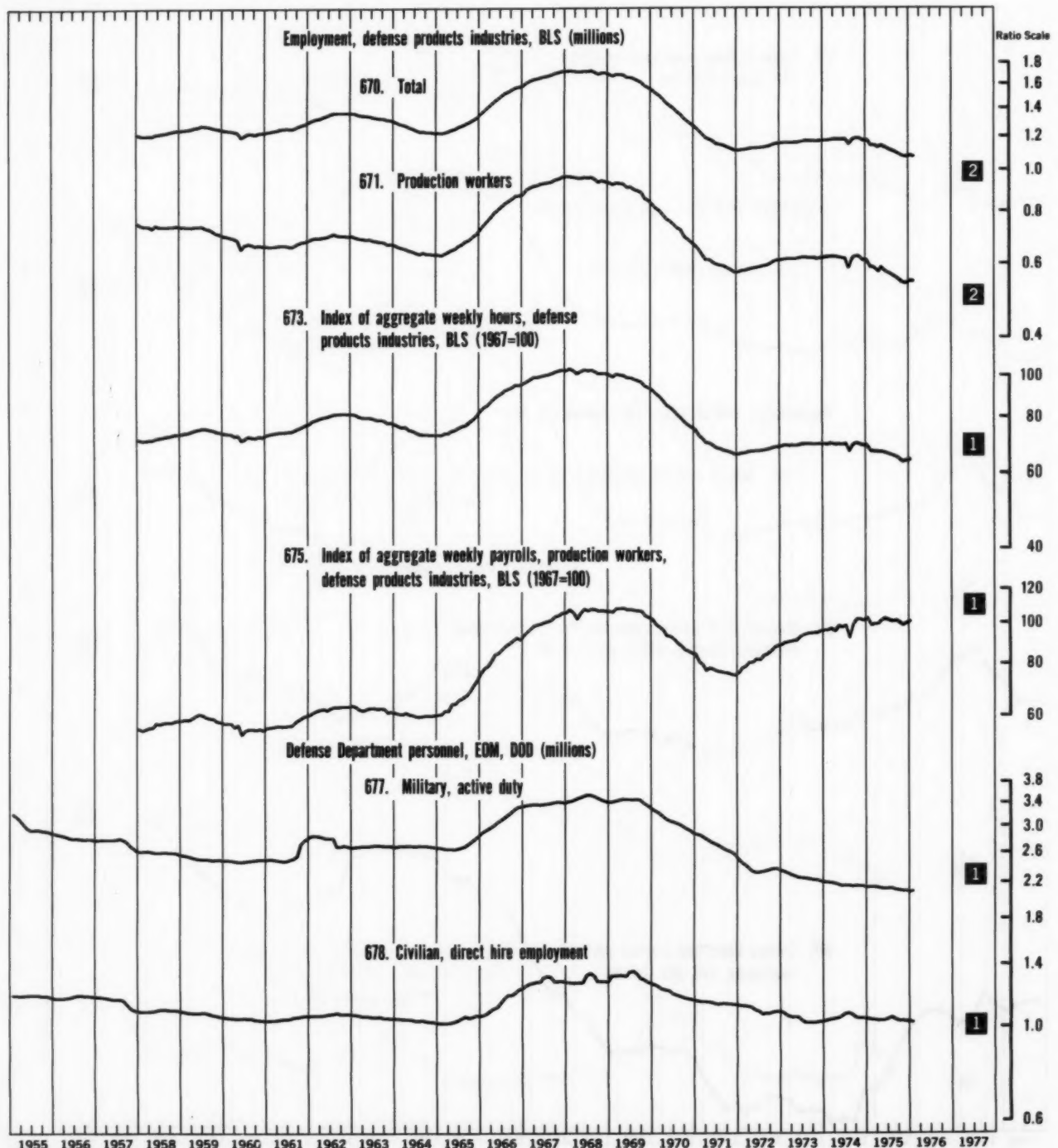
# Intermediate and Final Indicators of Defense Activity



\* Data prior to 1961 include orders from non-Government customers.  
Current data for these series are shown on page 22.

CHART  
**3**

Intermediate and Final Indicators of Defense Activity--Continued

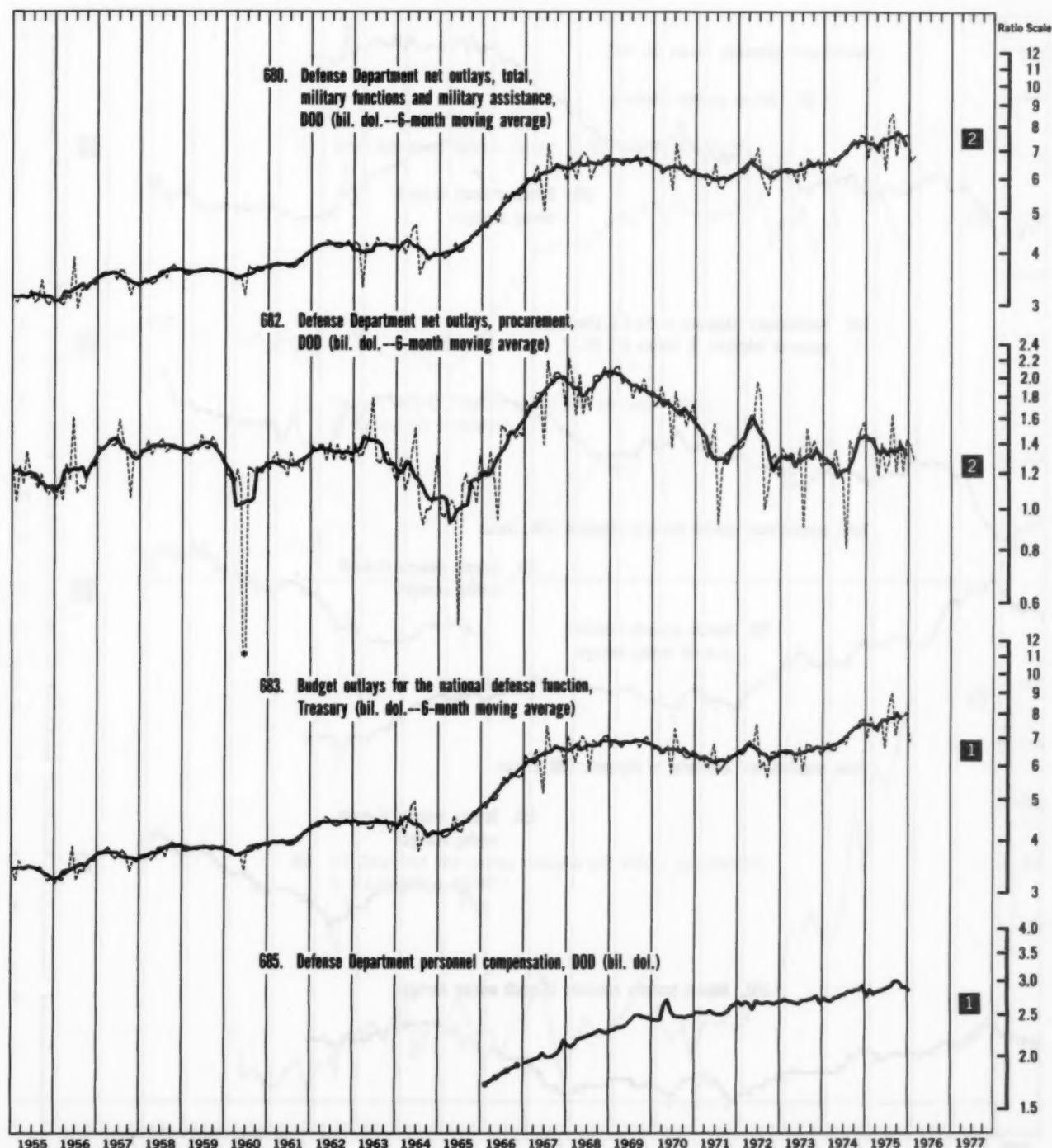




CHART

3

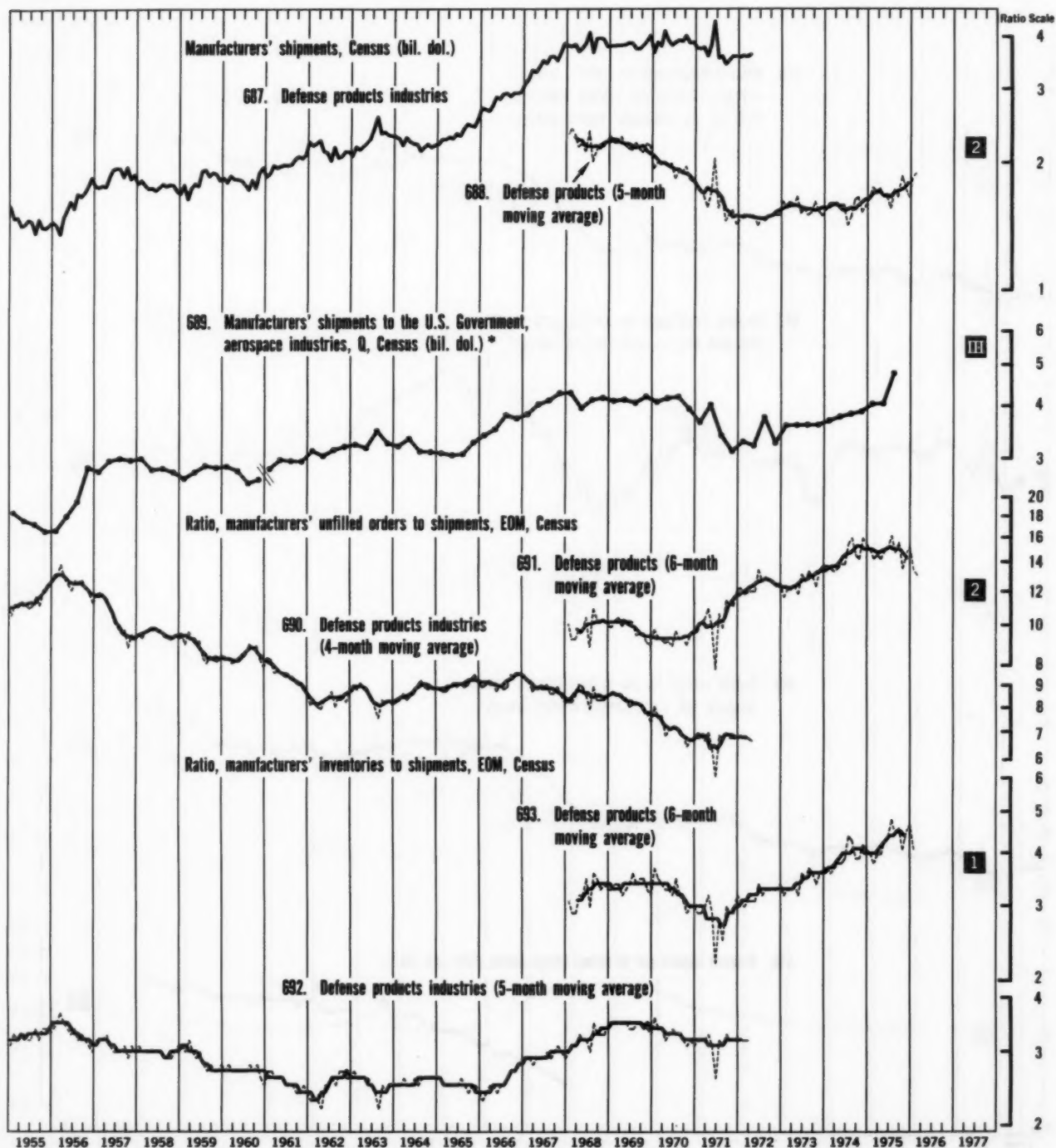
# Intermediate and Final Indicators of Defense Activity--Continued



\*Net expenditures for procurement, June 1960--\$245 million.  
Current data for these series are shown on pages 24 and 25.

CHART  
**3**

Intermediate and Final Indicators of Defense Activity--Continued

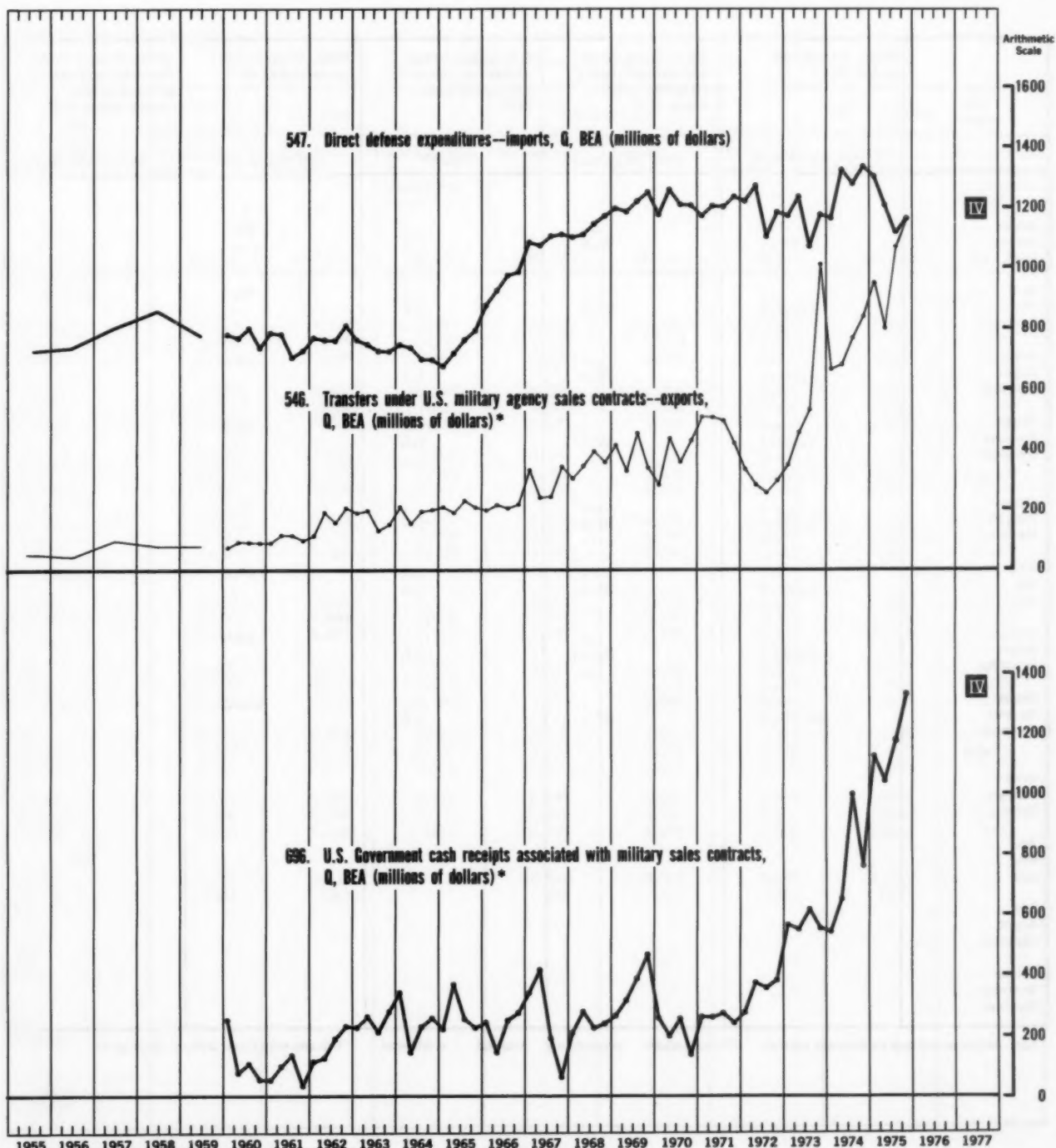


\*Data prior to 1961 include shipments to non-Government customers.  
Current data for these series are shown on page 26.

CHART

4

# Defense-Related Balance of Payments Components



\*See footnotes 1 and 2 on page 27.  
Current data for these series are shown on page 27.

# defense indicators

TABLE

1

## Gross National Product and National Defense Purchases

Year and month	200(a). Gross national product, BEA* (Ann. rate, bil. dol.)	264(a). Federal Government purchases of goods and services, national defense, BEA* (Ann. rate, bil. dol.)	613. National defense purchases as a percent of gross national product, BEA* (Percent)	200(b). Change in gross national product, BEA* (Ann. rate, bil. dol.)	264(b). Change in Federal Government purchases of goods and services, national defense, BEA* (Ann. rate, bil. dol.)
1974					
January .....	...	...	...	18.2	0.6
February .....	1,370.9	74.8	5.5	...	...
March .....	...	...	...	...	...
April .....	...	...	...	20.1	1.0
May .....	1,391.0	75.8	5.4	...	...
June .....	...	...	...	...	...
July .....	...	...	...	33.4	2.6
August .....	1,424.4	78.4	5.5	...	...
September .....	...	...	...	...	...
October .....	...	...	...	16.9	2.1
November .....	1,441.3	80.5	5.6	...	...
December .....	...	...	...	...	...
1975					
January .....	...	...	...	-7.7	0.9
February .....	1,433.6	81.4	5.7	...	...
March .....	...	...	...	...	...
April .....	...	...	...	27.0	0.7
May .....	1,460.6	82.1	5.6	...	...
June .....	...	...	...	...	...
July .....	...	...	...	67.9	2.8
August .....	1,528.5	84.9	5.6	...	...
September .....	...	...	...	...	...
October .....	...	...	...	r44.4	2.5
November .....	r1,572.9	87.4	5.6		
December .....					
1976					
January .....					
February .....					
March .....					
April .....					
May .....					
June .....					
July .....					
August .....					
September .....					
October .....					
November .....					
December .....					

Note: All data on this page are seasonally adjusted. NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 5.)

## Advance Indicators of Defense Activity

Year and month	Defense Department gross obligations incurred, DOD							
	617. Total			619. Operations		621. Procurement		
	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974								
January .....	8,113	7,527	7,374	4,991	4,714	2,337	2,077	1,689
February .....	6,826	7,398	7,390	4,187	4,758	1,677	1,708	1,731
March .....	6,613	7,485	7,368	4,377	4,699	1,381	1,642	1,658
April .....	7,375	7,762	7,588	4,982	4,804	1,546	2,040	1,702
May .....	6,104	7,187	7,664	4,434	4,662	894	1,330	1,675
June .....	10,110	8,166	7,810	6,170	5,466	2,465	1,412	1,672
July .....	9,285	7,983	7,926	5,901	5,110	1,332	1,919	1,706
August .....	8,874	8,279	7,912	5,224	5,203	1,416	1,692	1,607
September .....	7,790	8,179	8,083	4,771	5,040	1,919	1,842	1,777
October .....	7,965	7,681	8,075	5,394	4,999	1,709	1,446	1,780
November .....	7,600	8,211	7,968	4,471	4,786	2,281	2,349	1,697
December .....	7,260	8,116	7,832	4,826	5,334	1,646	1,431	1,667
1975								
January .....	8,252	7,341	7,916	5,471	5,148	1,895	1,424	1,751
February .....	6,904	7,467	7,958	4,604	5,220	1,569	1,509	1,748
March .....	7,526	8,677	7,956	4,787	5,251	1,994	2,349	1,665
April .....	7,403	7,933	8,033	5,424	5,209	1,147	1,425	1,700
May .....	6,796	8,199	8,246	4,761	5,121	1,147	1,850	1,808
June .....	11,027	8,583	8,569	6,275	5,560	2,693	1,642	2,027
July .....	9,903	8,614	8,440	6,641	5,624	1,510	2,074	1,891
August .....	9,812	9,406	8,516	5,337	5,327	2,508	2,821	1,911
September .....	7,705	7,907	8,494	5,203	5,442	1,506	1,535	1,808
October .....	9,045	8,387	8,385	6,130	5,660	1,733	1,543	1,784
November .....	6,976	8,069	8,304	4,829	5,334	1,320	1,234	1,658
December .....	7,156	7,925	(NA)	4,895	5,373	1,428	1,494	(NA)
1976								
January .....	8,652	8,132		6,010	5,729	1,697	1,321	
February .....	(NA)	(NA)		(NA)	(NA)	(NA)	(NA)	
March .....								
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								

NA=not available; p=preliminary; r=revised; e=estimated.

\*Indicates series shown in charts. (See page 6.)



defense indicators

TABLE

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Advance Indicators of Defense Activity--Continued

Year and month	623. Gross obligations incurred outside the Federal Government for national defense, Treasury		Defense Department military prime contract awards for work performed in the United States, DOD						
			625. Total			626. Aircraft		627. Missile and space systems	
	Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974									
January .....	8,264	7,784	3,084	3,378	3,123	1,093	...	206	...
February .....	7,874	7,673	2,613	3,141	3,317	598	2,424	305	844
March .....	7,819	7,712	2,602	2,677	3,212	517	...	255	...
April .....	8,270	p8,068	3,127	4,343	3,310	459	...	303	...
May .....	7,647	p8,112	2,250	2,881	3,329	308	1,104	297	1,271
June .....	p8,534	p8,333	6,086	3,440	3,498	502	...	323	...
July .....	8,526	p8,584	3,924	3,494	3,636	1,089	...	618	...
August .....	9,202	p8,623	4,091	4,153	3,605	591	2,446	430	1,448
September .....	9,326	p8,842	3,586	3,502	3,754	866	...	848	...
October .....	8,503	8,776	4,165	4,161	3,603	1,156	...	410	...
November .....	8,963	8,700	3,207	3,777	3,636	856	2,900	434	1,107
December .....	8,139	8,545	2,616	2,532	3,609	569	...	361	...
1975									
January .....	8,069	8,422	3,567	3,693	3,494	1,062	...	346	...
February .....	8,271	7,894	3,321	3,987	3,488	509	2,147	276	980
March .....	8,590	8,472	2,625	2,817	3,513	421	...	244	...
April .....	5,335	p8,863	2,914	4,122	3,720	316	...	377	...
May .....	12,426	p9,084	2,713	3,926	3,744	386	1,240	242	1,654
June .....	p10,487	p9,259	6,626	3,773	3,925	732	...	537	...
July .....	9,397	p9,176	4,376	3,842	3,969	810	...	661	...
August .....	9,321	(NA)	5,295	5,072	3,776	1,196	2,415	1,070	1,586
September .....	8,092		3,179	3,080	3,600	469	...	379	...
October .....	(NA)		3,174	2,961	3,493	817	...	463	...
November .....			2,608	2,872	3,420	373	1,807	498	1,327
December .....			2,870	3,130	(NA)	483		426	
1976									
January .....			3,288	3,407		546		341	
February .....			(NA)	(NA)		(NA)		(NA)	
March .....									
April .....									
May .....									
June .....									
July .....									
August .....									
September .....									
October .....									
November .....									
December .....									

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 6 and 7.)

## Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD--Continued						
	628. Ships, not seasonally adjusted	629. Weapons and ammunition		630. Electronic and communications equipment		631. Combat vehicles	
		Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January .....	52	135	...	311	...	102	...
February .....	212	244	541	415	1,013	5	253
March .....	103	142	...	206	...	40	...
April .....	190	170	...	403	...	129	...
May .....	155	123	680	270	1,110	98	502
June .....	1,175	554	...	732	...	404	...
July .....	230	37	...	321	...	59	...
August .....	625	72	453	402	1,316	104	249
September .....	134	111	...	352	...	151	...
October .....	210	122	...	598	...	25	...
November .....	328	114	334	349	1,239	22	126
December .....	109	165	...	254	...	81	...
1975							
January .....	325	125	...	414	...	21	...
February .....	251	160	515	331	1,379	66	288
March .....	11	217	...	535	...	52	...
April .....	621	147	...	313	...	23	...
May .....	94	128	683	587	1,255	86	191
June .....	858	672	...	696	...	161	...
July .....	250	52	...	394	...	126	...
August .....	814	126	630	470	1,559	70	259
September .....	439	95	...	430	...	90	...
October .....	80	128	...	439	...	67	...
November .....	114	66	303	445	1,277	14	172
December .....	211	146	...	332	...	62	...
1976							
January .....	310	76	...	263	...	48	...
February .....	(NA)	(NA)	...	(NA)	...	(NA)	...
March .....			...		...		...
April .....			...		...		...
May .....			...		...		...
June .....			...		...		...
July .....			...		...		...
August .....			...		...		...
September .....			...		...		...
October .....			...		...		...
November .....			...		...		...
December .....			...		...		...

NA=not available; p=preliminary; r=revised; e=estimated.

# defense indicators

TABLE

2

## Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD--Continued							
	632. Other hard goods		633. Soft goods		634. Construction		635. Services	
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974								
January .....	128	...	297	...	90	...	204	...
February .....	111	467	145	1,374	52	258	138	900
March .....	179	...	487	...	92	...	181	...
April .....	294	...	344	...	248	...	166	...
May .....	139	564	214	1,081	58	504	168	846
June .....	352	...	256	...	604	...	524	...
July .....	163	...	338	...	131	...	451	...
August .....	158	677	819	890	148	601	303	762
September .....	129	...	219	...	112	...	233	...
October .....	108	...	267	...	138	...	446	...
November .....	127	391	226	692	126	578	185	742
December .....	135	...	222	...	104	...	181	...
1975								
January .....	154	...	217	...	168	...	307	...
February .....	143	497	704	1,489	134	481	341	1,396
March .....	152	...	191	...	127	...	201	...
April .....	147	...	164	...	156	...	190	...
May .....	165	487	121	658	291	838	211	925
June .....	399	...	213	...	1,073	...	574	...
July .....	104	...	811	...	82	...	634	...
August .....	173	616	307	937	61	486	570	1,136
September .....	150	...	256	...	178	...	204	...
October .....	201	...	173	...	149	...	216	...
November .....	156	631	214	687	56	605	210	523
December .....	179	...	244	...	176	...	121	...
1976								
January .....	190	...	817	...	85	...	244	...
February .....	(NA)	...	(NA)	...	(NA)	...	(NA)	...
March .....	...	...	...	...	...	...	...	...
April .....	...	...	...	...	...	...	...	...
May .....	...	...	...	...	...	...	...	...
June .....	...	...	...	...	...	...	...	...
July .....	...	...	...	...	...	...	...	...
August .....	...	...	...	...	...	...	...	...
September .....	...	...	...	...	...	...	...	...
October .....	...	...	...	...	...	...	...	...
November .....	...	...	...	...	...	...	...	...
December .....	...	...	...	...	...	...	...	...

NA=not available; p=preliminary; r=revised; e=estimated.

## Advance Indicators of Defense Activity--Continued

Year and month	Defense Department military prime contract awards for work performed in the United States, DOD--Continued					640. Defense Department military prime contract awards for work outside the United States, DOD	
	636. Contracts under \$10,000		637. Educational and nonprofit institutions		638. Civilian Health and Medical Program of the Uniformed Services (CHAMPUS), not seasonally adjusted	Not seasonally adjusted	Seasonally adjusted
	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted			
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January .....	327	...	76	...	63	160	...
February .....	333	996	55	233	0	114	594
March .....	329	...	58	...	13	198	...
April .....	384	...	37	...	0	80	...
May .....	382	1,066	38	186	0	94	559
June .....	570	...	70	...	20	333	...
July .....	225	...	162	...	100	421	...
August .....	321	1,116	118	243	0	448	632
September .....	380	...	51	...	0	120	...
October .....	399	...	46	...	240	190	...
November .....	374	1,204	59	187	7	93	559
December .....	343	...	92	...	0	111	...
1975							
January .....	372	...	51	...	5	114	...
February .....	345	1,144	61	205	0	93	388
March .....	419	...	53	...	2	96	...
April .....	418	...	42	...	0	73	...
May .....	367	1,141	35	201	0	86	813
June .....	635	...	76	...	0	558	...
July .....	263	...	184	...	5	244	...
August .....	345	1,218	92	253	1	149	317
September .....	409	...	80	...	0	124	...
October .....	374	...	67	...	0	252	...
November .....	412	1,273	50	192	0	164	941
December .....	408	...	82	...	0	255	...
1976							
January .....	327	...	39	...	2	286	...
February .....	(NA)	...	(NA)	...	(NA)	(NA)	...
March .....		...		...			...
April .....		...		...			...
May .....		...		...			...
June .....		...		...			...
July .....		...		...			...
August .....		...		...			...
September .....		...		...			...
October .....		...		...			...
November .....		...		...			...
December .....		...		...			...

NA=not available; p=preliminary; r=revised; e=estimated.

# defense indicators

TABLE

2

## Advance Indicators of Defense Activity--Continued

Year and month	Defense Department gross unpaid obligations outstanding, DOD						648. Manufacturers' new orders, defense products, Census		650. Manufacturers' new orders from the U.S. Government, aerospace industries, Census, seasonally adjusted*
	643. Total		644. Operations		645. Procurement				
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted	Not seasonally adjusted	Seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data—6-month*	
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	
1974									
January .....	38,249	37,280	7,425	6,969	23,791	23,143	2,183	1,852	...
February .....	37,963	37,001	7,055	6,964	24,032	23,175	2,064	1,802	4,705
March .....	37,249	37,436	6,779	7,189	23,847	23,634	1,462	1,794	...
April .....	37,264	38,141	7,044	7,550	23,778	23,970	1,527	1,844	...
May .....	35,601	38,076	6,476	7,301	23,123	23,987	2,079	1,710	3,073
June .....	37,545	38,947	7,373	8,417	23,994	23,756	1,752	1,904	...
July .....	e39,626	e40,435	e8,149	e8,392	e24,316	e24,914	1,377	1,940	...
August .....	40,594	40,152	8,426	8,010	23,791	24,351	3,229	1,919	5,709
September .....	41,055	40,488	8,311	7,991	24,283	24,703	1,678	1,965	...
October .....	41,201	39,731	8,607	7,610	24,361	24,337	1,401	1,951	...
November .....	40,949	40,068	7,906	7,334	25,147	25,022	2,351	1,994	5,627
December .....	40,407	40,047	7,654	7,556	25,199	25,024	1,668	1,813	...
1975									
January .....	40,819	39,823	7,997	7,495	25,484	24,838	1,635	1,817	...
February .....	40,008	39,147	7,520	7,460	25,452	24,568	2,147	1,857	4,252
March .....	39,473	39,791	7,169	7,651	25,688	25,259	1,702	1,742	...
April .....	38,589	39,457	7,276	7,807	24,932	24,957	1,639	1,782	...
May .....	37,120	39,658	6,746	7,666	24,321	25,099	1,659	1,812	3,875
June .....	39,557	41,334	7,303	8,346	25,311	25,438	1,909	1,796	...
July .....	e41,470	e42,144	e8,733	e8,939	e25,167	e25,370	1,818	1,844	...
August .....	43,248	42,651	8,677	8,280	26,070	26,684	2,048	1,806	p4,608
September .....	43,084	42,281	8,677	8,287	26,002	26,479	1,991	1,821	...
October .....	43,754	42,193	9,259	8,172	26,081	26,238	1,408	1,753	...
November .....	42,767	41,724	8,804	8,144	25,810	25,707	1,750	r1,699	(NA)
December .....	41,551	40,897	8,261	8,155	25,507	25,305	1,501	p1,630	
1976									
January .....	42,110	40,804	8,947	8,489	25,503	24,905	r1,497		
February .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	p1,634		
March .....									
April .....									
May .....									
June .....									
July .....									
August .....									
September .....									
October .....									
November .....									
December .....									

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 7 and 8.)



TABLE

2

## Advance Indicators of Defense Activity--Continued

Year and month	653. Average weekly overtime hours, production workers, defense products industries, BLS		654. Accession rate, defense products industries, BLS			655. Layoff rate, defense products industries, BLS		
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data--4-month*	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data--4-month*
	(Hours)	(Hours)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)	(Per 100 employees)
1974								
January .....	2.9	3.0	2.1	2.2	2.2	0.6	0.4	0.5
February .....	2.7	2.8	1.8	2.1	2.1	0.6	0.5	0.5
March .....	2.8	2.9	1.9	2.1	2.2	0.6	0.4	0.4
April .....	2.1	2.4	2.1	2.3	2.2	0.6	0.5	0.5
May .....	2.8	3.1	2.2	2.2	2.2	0.5	0.6	0.5
June .....	3.0	3.0	2.8	2.1	2.2	0.5	0.6	0.5
July .....	2.7	3.0	2.6	2.3	2.2	0.4	0.5	0.6
August .....	2.8	2.8	2.6	2.2	2.2	0.5	0.6	0.6
September .....	2.9	2.6	2.6	2.2	2.1	0.5	0.6	0.6
October .....	2.8	2.7	2.1	1.9	2.0	0.7	0.7	0.6
November .....	2.9	2.6	1.3	1.6	1.8	0.8	0.7	0.7
December .....	3.0	2.6	0.9	1.7	1.7	0.8	0.8	0.8
1975								
January .....	2.4	2.5	1.4	1.6	1.6	1.2	1.1	1.0
February .....	2.4	2.5	1.3	1.6	1.6	1.3	1.2	1.2
March .....	2.3	2.5	1.3	1.6	1.7	2.1	1.9	1.4
April .....	2.1	2.4	1.9	2.1	1.6	1.4	1.3	1.4
May .....	2.0	2.3	1.3	1.3	1.5	1.3	1.3	1.5
June .....	2.5	2.4	1.7	1.0	1.4	1.3	1.4	1.2
July .....	2.2	2.5	1.6	1.3	1.2	0.8	1.0	1.2
August .....	2.6	2.6	1.6	1.2	1.2	1.2	1.3	1.2
September .....	2.8	2.5	1.7	1.3	1.2	1.0	1.2	1.2
October .....	2.7	2.6	1.4	1.2	1.2	1.0	1.1	1.1
November .....	2.7	2.5	1.0	1.3	1.4	0.8	0.7	0.9
December .....	r2.9	r2.5	0.8	1.6	(NA)	0.6	0.6	(NA)
1976								
January .....	p2.5	p2.6	(NA)	(NA)		(NA)	(NA)	
February .....	(NA)	(NA)						
March .....								
April .....								
May .....								
June .....								
July .....								
August .....								
September .....								
October .....								
November .....								
December .....								

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 8.)

# defense indicators

TABLE

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## Intermediate and Final Indicators of Defense Activity

Year and month	657. Output of defense and space equipment, FRB, seasonally adjusted*	659. Manufacturers' inventories, defense products, Census, seasonally adjusted*	661. Manufacturers' unfilled orders, defense products, Census, seasonally adjusted*	664. Manufacturers' unfilled orders from the U.S. Government, aerospace industries, Census, seasonally adjusted*	666. Defense Department progress payments outstanding, DOD, not seasonally adjusted*	670. Employment in defense products industries, total, BLS	
	(Index: 1967=100)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	Not seasonally adjusted	Seasonally adjusted*
1974							
January .....	81.4	5,679	21,372	...	...	1,181	1,177
February .....	80.9	5,837	21,827	...	...	1,176	1,176
March .....	81.0	5,966	21,678	17,378	7,781	1,175	1,180
April .....	80.6	5,978	21,622	...	...	1,174	1,181
May .....	82.2	6,119	22,107	...	...	1,170	1,179
June .....	81.7	6,201	22,261	16,847	8,104	1,175	1,179
July .....	82.6	6,303	22,208	...	...	1,176	1,184
August .....	82.7	6,431	23,941	...	...	1,140	1,147
September .....	83.1	6,377	23,979	19,002	8,531	1,185	1,181
October .....	84.1	6,463	23,715	...	...	1,196	1,188
November .....	83.7	6,477	24,530	...	...	1,196	1,183
December .....	83.4	6,543	24,612	20,662	9,166	1,184	1,171
1975							
January .....	83.8	6,503	24,603	...	...	1,178	1,175
February .....	82.4	6,714	24,998	...	...	1,141	1,141
March .....	82.1	6,867	24,986	20,811	9,609	1,137	1,142
April .....	82.4	6,978	24,883	...	...	1,121	1,128
May .....	82.7	7,110	24,875	...	...	1,131	1,140
June .....	82.9	7,637	25,118	21,147	10,464	1,123	1,127
July .....	82.6	7,455	25,368	...	...	1,110	1,117
August .....	81.4	7,575	25,685	...	...	1,100	1,108
September .....	81.6	7,687	26,011	p20,703	11,008	1,104	1,100
October .....	81.1	7,730	25,552	...	...	1,097	1,090
November .....	r79.3	7,824	25,566	...	...	1,089	1,077
December .....	r79.7	7,806	25,403	(NA)	11,257	r1,088	r1,075
1976							
January .....	r80.2	7,642	r25,050			r1,084	r1,081
February .....	p80.3	(NA)	p24,786			p1,075	p1,076
March .....							
April .....							
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							

NA=not available; p=preliminary; r=revised; e=estimated.

\*Indicates series shown in charts. (See pages 9 and 10.)

## Intermediate and Final Indicators of Defense Activity--Continued

Year and month	671. Employment in defense products industries, production workers, BLS		673. Index of aggregate weekly hours, defense products industries, BLS		675. Index of aggregate weekly payrolls, production workers, defense products industries, BLS	
	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*	Not seasonally adjusted	Seasonally adjusted*
	(Thous.)	(Thous.)	(1967=100)	(1967=100)	(1967=100)	(1967=100)
1974						
January .....	627	623	69.8	69.8	96.7	96.5
February .....	623	622	69.6	69.6	96.5	96.3
March .....	621	624	69.7	69.9	97.0	97.2
April .....	620	624	68.7	69.4	94.1	95.9
May .....	615	622	69.4	69.8	97.6	98.7
June .....	616	620	69.3	69.5	96.9	98.0
July .....	612	618	68.7	69.8	94.9	98.5
August .....	576	584	66.3	67.0	89.6	91.9
September .....	621	619	69.7	69.3	99.8	99.0
October .....	632	627	70.4	70.0	103.2	102.0
November .....	634	624	70.7	69.5	105.3	102.2
December .....	623	611	70.5	69.1	106.3	101.2
1975						
January .....	618	615	69.2	69.2	102.8	102.6
February .....	589	589	67.0	67.0	98.6	98.4
March .....	585	588	66.8	67.0	99.1	99.4
April .....	570	574	66.1	66.8	97.6	99.5
May .....	581	588	66.5	66.8	100.2	101.3
June .....	573	577	66.4	66.6	101.2	102.3
July .....	564	570	65.0	66.1	97.9	101.7
August .....	555	563	64.9	65.6	98.3	101.0
September .....	558	556	65.5	65.1	102.0	101.2
October .....	554	549	64.9	64.5	101.5	100.4
November .....	549	540	64.6	63.5	101.8	98.7
December .....	r549	r538	r65.0	r63.8	r104.9	r99.8
1976						
January .....	r547	r543	p64.0	p64.0	p101.0	p100.8
February .....	p542	p542	(NA)	(NA)	(NA)	(NA)
March .....						
April .....						
May .....						
June .....						
July .....						
August .....						
September .....						
October .....						
November .....						
December .....						

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 10.)

defense indicators

TABLE

3

Intermediate and Final Indicators of Defense Activity--Continued

Year and month	Defense Department personnel, DOD		Defense Department net outlays, DOD				
	677. Military, active duty, not seasonally adjusted*	678. Civilian, direct hire employment, not seasonally adjusted*	680. Total, military functions and military assistance			681. Operations	
			Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*	Not seasonally adjusted	Seasonally adjusted
	(Thous.)	(Thous.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January .....	2,199	1,034	6,728	6,538	6,524	4,376	4,333
February .....	2,195	1,039	6,384	6,717	6,527	4,137	4,313
March .....	2,187	1,042	6,702	6,536	6,537	4,398	4,364
April .....	2,174	1,046	6,685	6,458	6,648	4,367	4,221
May .....	2,156	1,053	7,204	6,745	6,712	4,718	4,536
June .....	2,162	1,070	7,872	6,894	6,801	4,835	4,296
July .....	2,162	1,074	5,979	6,921	6,956	4,628	4,917
August .....	2,153	1,064	6,897	7,254	7,068	4,804	4,957
September .....	2,157	1,049	6,948	7,463	7,218	4,575	4,828
October .....	2,156	1,046	7,271	7,130	7,328	4,817	4,853
November .....	2,154	1,046	7,473	7,648	7,302	4,912	5,042
December .....	2,140	1,043	7,451	7,549	7,358	4,742	4,843
1975							
January .....	2,145	1,038	7,051	6,766	7,312	4,775	4,605
February .....	2,146	1,036	7,258	7,590	7,284	4,727	4,907
March .....	2,137	1,034	7,244	7,190	7,258	4,736	4,778
April .....	2,127	1,034	7,190	6,958	7,056	4,960	4,744
May .....	2,124	1,035	7,780	7,494	7,308	4,909	4,963
June .....	2,128	1,042	7,476	6,336	7,475	4,954	4,395
July .....	2,129	1,052	7,124	8,278	7,423	4,918	5,154
August .....	2,111	1,038	7,961	8,594	7,552	5,081	5,242
September .....	2,105	1,030	6,631	6,880	7,566	4,810	5,082
October .....	2,097	1,031	7,913	7,732	7,788	5,260	5,213
November .....	2,099	1,029	7,203	7,574	7,515	4,997	5,131
December .....	2,084	1,028	7,695	7,672	7,222	5,078	5,068
1976							
January .....	p2,092	1,023	r6,649	r6,636		r4,887	r4,892
February .....	(NA)	(NA)	p6,790	p6,838		p4,849	p4,825
March .....							
April .....							
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See pages 10 and 11.)

## Intermediate and Final Indicators of Defense Activity--Continued

Year and month	Defense Department net outlays, DOD--Continued			683. Budget outlays for the national defense function, Treasury		685. Defense Department personnel compensation, DOD	
	682. Procurement			Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*	Not seasonally adjusted	Seasonally adjusted*
	Not seasonally adjusted	Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*				
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974							
January .....	1,270	1,262	1,300	6,569	6,613	2,879	2,738
February .....	1,195	1,276	1,289	6,835	6,617	2,651	2,702
March .....	1,313	1,241	1,268	6,579	6,640	2,700	2,687
April .....	1,382	1,355	1,254	6,567	6,733	2,750	2,739
May .....	1,292	1,227	1,179	6,874	6,768	2,817	2,745
June .....	1,346	1,165	1,204	6,973	6,831	2,710	2,782
July .....	801	810	1,221	6,783	6,962	2,835	2,793
August .....	1,348	1,425	1,224	7,212	7,112	2,814	2,837
September .....	1,251	1,343	1,270	7,362	7,254	2,741	2,823
October .....	1,455	1,377	1,338	7,467	7,393	2,869	2,864
November .....	1,372	1,501	1,440	7,727	7,436	2,827	2,864
December .....	1,439	1,569	1,444	7,809	7,550	2,874	2,924
1975							
January .....	1,427	1,428	1,460	7,039	7,554	2,913	2,762
February .....	1,351	1,444	1,429	7,896	7,526	2,808	2,862
March .....	1,500	1,440	1,414	7,385	7,536	2,812	2,799
April .....	1,200	1,194	1,354	7,297	7,342	2,867	2,836
May .....	1,467	1,406	1,328	7,788	7,564	2,870	2,850
June .....	1,409	1,215	1,360	6,649	7,747	2,823	2,869
July .....	1,225	1,268	1,322	8,367	7,706	2,941	2,895
August .....	1,559	1,634	1,361	8,996	7,818	2,873	2,923
September .....	1,191	1,217	1,330	7,140	7,836	2,936	2,999
October .....	1,500	1,425	1,365	7,971	8,079	3,008	2,999
November .....	1,081	1,220	1,384	7,896	7,830	2,866	2,927
December .....	1,319	1,427	pl,328	8,103	(NA)	r2,916	r2,925
1976							
January .....	1,363	1,384		6,874		p2,972	p2,871
February .....	pl,227	pl,293		(NA)		(NA)	(NA)
March .....							
April .....							
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 11.)



# defense indicators

TABLE

3

## Intermediate and Final Indicators of Defense Activity--Continued

Year and month	688. Manufacturers' shipments, defense products, Census		689. Manufacturers' shipments to the U.S. Government, aerospace industries, Census, seasonally adjusted*	691. Ratio, manufacturers' unfilled orders to shipments, defense products, Census		693. Ratio, manufacturers' inventories to shipments, defense products, Census	
	Seasonally adjusted*	Moving average of seasonally adjusted data--5-month*		Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*	Seasonally adjusted*	Moving average of seasonally adjusted data--6-month*
	(Mil. dol.)	(Mil. dol.)		(Ratio)	(Ratio)	(Ratio)	(Ratio)
1974							
January .....	1,552	1,564	...	13.8	13.4	3.7	3.6
February .....	1,610	1,573	3,696	13.6	13.6	3.6	3.7
March .....	1,612	1,591	...	13.4	13.7	3.7	3.7
April .....	1,586	1,600	...	13.6	13.7	3.8	3.8
May .....	1,594	1,564	3,780	13.9	14.0	3.8	3.9
June .....	1,596	1,541	...	13.9	14.4	3.9	4.0
July .....	1,431	1,551	...	15.5	14.6	4.4	4.0
August .....	1,497	1,565	3,834	16.0	14.7	4.3	4.0
September .....	1,638	1,553	...	14.6	15.0	3.9	4.1
October .....	1,663	1,584	...	14.3	15.3	3.9	4.1
November .....	1,536	1,613	3,888	16.0	15.2	4.2	4.1
December .....	1,585	1,636	...	15.5	15.0	4.1	4.0
1975							
January .....	1,644	1,646	...	15.0	15.0	4.0	4.0
February .....	1,753	1,688	4,049	14.3	15.0	3.8	4.0
March .....	1,714	1,704	...	14.6	14.8	4.0	4.0
April .....	1,742	1,709	...	14.3	14.7	4.0	4.1
May .....	1,668	1,671	4,056	14.9	14.9	4.3	4.2
June .....	1,666	1,675	...	15.1	15.0	4.4	4.3
July .....	1,567	1,660	...	16.2	15.2	4.8	4.4
August .....	1,732	1,699	p4,761	14.8	15.0	4.4	4.4
September .....	1,665	1,713	...	15.6	15.0	4.6	4.5
October .....	1,866	1,732	...	13.7	15.0	4.1	4.5
November .....	1,736	r1,756	(NA)	14.7	r14.6	4.5	4.4
December .....	1,661	p1,802	...	15.3	p14.3	4.7	(NA)
1976							
January .....	r1,852			r13.5		4.1	
February .....	p1,896			p13.1		(NA)	
March .....							
April .....							
May .....							
June .....							
July .....							
August .....							
September .....							
October .....							
November .....							
December .....							

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 12.)

TABLE

4

## Defense-Related Balance of Payments Components

Year and month	546. Transfers under U.S. military agency sales contracts (exports), BEA <sup>1</sup>		547. Direct defense expenditures (imports), BEA, not seasonally adjusted*	696. U.S. Government cash receipts associated with military sales contracts, BEA <sup>2</sup>	
	Not seasonally adjusted	Seasonally adjusted*		Not seasonally adjusted	Seasonally adjusted*
	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)	(Mil. dol.)
1974					
January .....	...	...	...	...	...
February .....	639	663	1,166	499	544
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May .....	738	678	1,324	645	653
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August .....	716	766	1,279	996	998
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November .....	852	837	1,335	817	762
December .....	...	...	...	...	...
1975					
January .....	...	...	...	...	...
February .....	909	r949	1,303	1,082	1,126
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May .....	888	r800	1,209	1,034	1,042
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August .....	r1,000	r1,070	r1,120	1,179	1,179
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November .....	pl,184	pl,162	pl,167	pl,389	pl,337
December .....	...	...	...	...	...
1976					
January .....	...	...	...	...	...
February .....	...	...	...	...	...
March .....	...	...	...	...	...
April .....	...	...	...	...	...
May .....	...	...	...	...	...
June .....	...	...	...	...	...
July .....	...	...	...	...	...
August .....	...	...	...	...	...
September .....	...	...	...	...	...
October .....	...	...	...	...	...
November .....	...	...	...	...	...
December .....	...	...	...	...	...

NA=not available; p=preliminary; r=revised; e=estimated. \*Indicates series shown in charts. (See page 13.)

<sup>1</sup> Includes deliveries for which, under Public Law 93-199, Israel has been released from its contractual liability to pay.<sup>2</sup> Excludes funds made available to release Israel from its contractual liability to pay for defense articles and services purchased through military sales contracts. Quarterly expenditures for such purpose under Public Laws 93-199 and 93-559 (sec.45 (a) (7) (B)) amounted to (in millions): 1974, IIQ, \$623; IIIQ, \$223; IVQ, \$91; 1975, IQ, \$187; IIQ, \$124; IIIQ, \$87; IVQ, \$250.

# Appendix A. SEASONAL ADJUSTMENT FACTORS

Series title	1975						1976					
	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June
<b>MONTHLY SERIES</b>												
Defense Department gross obligations incurred:												
617. Total <sup>1</sup>	115.0	104.3	97.4	107.8	86.5	90.3	106.4	90.5	93.2	95.0	77.8	133.3
619. Operations <sup>1</sup>	118.1	100.2	95.6	108.3	90.5	91.1	104.9	91.2	93.3	102.8	89.1	117.6
621. Procurement	72.8	88.9	98.1	112.3	107.0	95.6	128.5	103.3	89.1	68.6	64.9	166.7
623. Gross obligations incurred outside the Federal Government for national defense <sup>1</sup>	117.4	104.5	96.5	105.2	95.6	97.0	108.1	86.7	95.2	94.2	82.5	119.9
625. Defense Department military prime contract awards for work performed in the United States	113.9	104.4	103.2	107.2	90.8	91.7	96.5	84.5	84.9	72.5	71.9	179.3
Defense Department gross unpaid obligations outstanding: <sup>2</sup>												
643. Total	98.4	101.4	101.9	103.7	102.5	101.6	103.2	101.0	97.9	95.5	91.9	95.6
644. Operations	97.7	104.8	104.7	113.3	108.1	101.3	105.4	99.0	92.8	93.1	87.0	89.5
645. Procurement	99.2	97.7	98.2	99.4	100.4	100.8	102.4	103.0	102.0	99.8	96.9	100.1
648. Manufacturers' new orders, defense products <sup>3</sup>	178.1	85.4	116.2	104.9	91.8	106.5	94.9	98.1	98.4	87.5	71.2	93.1
653. Average weekly overtime hours, production workers, defense products industries <sup>4</sup>	-.3	.0	.3	.1	.3	.4	-.1	-.1	-.1	-.3	-.3	.0
654. Accession rate, defense products industries <sup>4</sup>	.3	.4	.4	.2	-.3	-.8	-.1	-.3	-.2	-.2	.0	.6
655. Layoff rate, defense products industries <sup>4</sup>	-.1	-.1	-.2	.0	.1	.0	.1	.1	.1	.1	.0	-.1
657. Output of defense and space equipment <sup>3</sup>	98.6	98.9	100.1	100.1	100.9	101.8	100.0	99.9	100.4	99.4	99.9	100.7
659. Manufacturers' inventories, defense products <sup>3</sup>	100.2	99.2	99.7	100.6	100.6	99.4	98.6	99.8	101.3	100.6	100.0	99.9
661. Manufacturers' unfilled orders, defense products <sup>3</sup>	101.0	99.7	100.5	101.0	99.9	99.8	101.0	101.2	101.0	99.8	97.3	96.3
Employment in defense products industries:												
670. Total	99.3	99.3	100.3	100.6	101.1	101.2	100.3	99.9	99.5	99.4	99.2	99.6
671. Production workers	99.0	98.6	100.3	100.8	101.7	102.0	100.6	100.0	99.5	99.3	98.8	99.3
673. Index of aggregate weekly hours, defense products industries	98.4	98.9	100.6	100.6	101.7	102.0	100.0	100.0	99.6	98.9	99.4	99.7
675. Index of aggregate weekly payrolls, production workers, defense products industries	96.3	97.3	100.8	101.2	103.1	105.1	100.2	100.3	99.7	98.0	99.0	98.9
Defense Department net outlays:												
680. Total, military functions and military assistance <sup>1</sup>	86.1	92.6	96.4	102.3	95.1	100.3	100.2	99.3	104.2	102.2	97.8	120.2
681. Operations <sup>1</sup>	95.4	96.9	94.6	100.9	97.4	100.2	99.9	100.5	101.2	102.0	97.1	110.3
682. Procurement <sup>1</sup>	96.6	95.4	97.9	105.3	88.6	92.4	98.5	94.9	110.4	95.1	99.7	114.0
683. Budget outlays for the national defense function <sup>1</sup>	87.3	91.5	97.0	102.8	95.4	98.5	100.6	99.9	103.4	102.7	97.3	119.7
685. Defense Department personnel compensation <sup>1</sup>	101.6	98.3	97.9	100.3	97.9	99.7	103.5	101.0	101.9	100.4	99.2	99.6
688. Manufacturers' shipments, defense products <sup>3</sup>	98.1	99.1	103.4	99.5	102.9	108.3	88.0	96.4	99.5	99.6	98.9	105.6
<b>QUARTERLY SERIES</b>												
	IIIQ			IVQ			IQ			IIQ		
200. Gross national product <sup>3</sup>	98.4			104.5			96.1			100.9		
264. Fed. Govt. purchases of goods and services, national defense <sup>3</sup>	95.0			100.9			99.2			104.9		
546. Transfers under U.S. military agency sales contracts-exports <sup>5</sup>	-50			15			-24			60		
Defense Department military prime contract awards:												
626. Aircraft	102.5			92.6			98.6			102.7		
627. Missile and space systems	133.0			104.5			83.9			73.5		
629. Weapons and ammunition	43.3			112.3			95.3			150.6		
630. Electronic and communications equipment	83.0			95.2			93.6			124.9		
631. Combat vehicles	110.4			83.0			56.8			146.2		
632. Other hard goods	69.3			84.9			90.8			149.2		
633. Soft goods	146.6			91.9			82.8			74.9		
634. Construction	66.0			63.0			76.6			196.8		
635. Services	123.9			104.6			65.7			104.9		
636. Under \$10,000	83.5			93.8			99.3			123.2		
637. Educational and nonprofit institutions	140.5			103.9			80.2			75.3		
640. Outside U.S.	163.3			71.3			76.4			89.6		
Aerospace industries:												
650. Manufacturers' new orders from the U.S. Government	121.0			100.8			88.5			87.0		
664. Manufacturers' unfilled orders from the U.S. Government	102.1			101.8			100.2			96.7		
689. Manufacturers' shipments to the U.S. Government	99.1			103.8			94.8			100.9		
696. U.S. Govt. cash receipts associated with military sales contracts <sup>5</sup>	-2			55			-45			-8		

NOTE: The seasonal adjustment factors presented in this table were computed using the techniques described in the Bureau of the Census Technical Paper No. 15, *The X-11 Variant of the Census Method II Seasonal Adjustment Program*.

Monthly data for Defense Department military prime contract awards by commodity category (series 626 to 640) have not been adjusted for seasonal variation. The series on direct defense expenditures—imports (series 547), Defense Department progress payments outstanding (series 666), and Defense Department personnel (series 677 and 678) contain no measurable seasonal variation.

<sup>1</sup> Factors are products of seasonal and trading-day factors.

<sup>2</sup> Prior to 1972, data for gross unpaid obligations outstanding are not available for a number

of months but these gaps were filled with averages of preceding and following months for purposes of estimating seasonal variation.

<sup>3</sup> These series have been adjusted by the source agencies. The factors shown here are implicit seasonal factors for the calendar year 1973 and are derived by dividing the seasonally unadjusted data by the seasonally adjusted data.

<sup>4</sup> These series have been seasonally adjusted using the additive version of the seasonal adjustment program. Seasonally adjusted data are derived by subtracting the adjustment factor from the unadjusted data. Seasonally adjusted data for other series are derived by dividing the seasonal factors into the unadjusted data.

<sup>5</sup> This series is the total of component series which have been adjusted separately by the source agency. The factors shown here are implicit seasonal factors for the calendar year 1974 and are derived by subtracting the seasonally adjusted data from the seasonally unadjusted data.

## Appendix C. HISTORICAL DATA

This appendix provides historical data (back to 1945 if available) for selected Defense Indicators series. Data are shown for series which (a) have recently been added to the report, (b) have recently been revised, or (c) have not been shown here for a long time. By keeping these tables, the user can acquire a complete set of historical data. Each time a series is included in this appendix, it is footnoted to indicate the extent of any revisions since it was last shown. See the "Alphabetical Index—Series Finding Guide" for the latest issue in which historical data

were published for each series. Current figures are shown in the basic data tables each month and may be used to update these historical tables.

Official source agency annual figures are shown if available. Such figures may differ slightly from those computed from the monthly or quarterly data appearing in the tables. When both seasonally adjusted and unadjusted data are shown for a series, annual figures are included only for the unadjusted data. Quarterly and annual data are not included for moving averages.

Year	Quarterly				Annual	Year	Quarterly				Annual
	I Q	II Q	III Q	IV Q			I Q	II Q	III Q	IV Q	
200. GROSS NATIONAL PRODUCT IN CURRENT DOLLARS (ANNUAL RATE, BILLIONS OF DOLLARS)					AVERAGE	200-R. DIFFERENCE FROM PRECEDING PERIOD IN GNP, CURRENT DOLLARS (ANNUAL RATE, BILLIONS OF DOLLARS)					DIFFERENCE <sup>1</sup>
1945.....	...	...	...	...	...	1945.....	...	...	...	...	...
1946.....	197.4	205.0	215.3	220.4	209.6	1946.....	...	7.6	10.3	5.1	...
1947.....	224.9	229.1	237.3	243.6	232.8	1947.....	4.5	4.2	4.2	10.3	23.2
1948.....	249.6	257.1	264.0	265.5	259.1	1948.....	6.0	7.5	6.9	1.5	26.3
1949.....	260.1	256.6	252.6	257.5	256.0	1949.....	-5.4	-3.5	2.0	-2.1	-1.1
1950.....	267.4	276.9	284.5	305.9	286.2	1950.....	10.9	9.5	17.6	11.4	28.2
1951.....	319.0	327.7	334.4	339.5	330.2	1951.....	14.0	7.8	6.7	4.1	44.0
1952.....	341.1	341.3	347.0	350.2	347.2	1952.....	2.6	0.2	5.7	12.2	17.0
1953.....	365.4	368.8	367.2	367.6	366.1	1953.....	6.2	3.4	-1.0	-5.2	18.9
1954.....	362.0	361.0	366.2	375.0	366.3	1954.....	-0.6	-0.2	4.4	7.8	6.2
1955.....	387.5	395.4	404.0	410.2	398.3	1955.....	12.5	7.9	8.6	6.2	33.0
1956.....	411.9	417.4	422.4	430.9	420.7	1956.....	1.7	5.5	5.0	8.5	21.4
1957.....	436.9	441.0	442.2	442.7	442.8	1957.....	14.0	2.1	7.2	-5.4	22.1
1958.....	435.8	439.0	453.1	466.3	448.0	1958.....	-7.0	4.1	13.2	13.2	6.1
1959.....	476.0	489.0	486.5	493.5	486.5	1959.....	9.7	13.9	-3.4	7.0	37.6
1960.....	506.6	506.5	506.2	504.6	506.0	1960.....	13.1	-0.1	-0.3	-1.6	19.5
1961.....	507.1	518.2	527.2	540.7	523.3	1961.....	2.5	11.1	9.0	13.5	17.3
1962.....	553.0	562.1	577.8	572.3	563.8	1962.....	12.3	9.1	5.7	4.5	40.5
1963.....	580.2	587.9	600.5	610.4	594.7	1963.....	7.9	7.7	12.6	9.9	30.9
1964.....	622.4	632.4	642.1	646.0	635.7	1964.....	12.0	10.0	9.7	3.9	41.0
1965.....	665.4	678.7	695.1	713.3	689.1	1965.....	19.4	13.3	16.4	18.2	52.4
1966.....	733.7	747.6	759.7	771.7	753.0	1966.....	20.4	13.9	11.4	12.7	64.9
1967.....	777.5	785.8	803.1	818.7	796.3	1967.....	5.8	8.3	17.3	15.6	43.3
1968.....	837.3	861.8	880.0	894.7	868.5	1968.....	18.6	24.5	18.2	14.7	72.2
1969.....	913.0	929.0	947.9	953.3	935.5	1969.....	18.3	16.0	17.0	6.4	67.0
1970.....	964.2	976.5	992.6	996.3	982.4	1970.....	18.9	17.3	17.1	9.7	46.9
1971.....	1034.0	1056.2	1072.4	1091.2	1065.4	1971.....	37.7	22.2	16.2	18.8	81.0
1972.....	1127.0	1156.7	1191.4	1219.4	1171.1	1972.....	35.8	29.7	24.7	38.0	107.7
1973.....	1265.0	1287.8	1310.7	1352.7	1306.3	1973.....	45.6	22.8	31.9	33.0	135.2
1974.....	1370.9	1391.0	1428.4	1441.3	1406.9	1974.....	18.2	20.1	33.4	16.9	100.6
1975.....						1975.....					
1976.....						1976.....					
1977.....						1977.....					
264. FEDERAL GOVERNMENT PURCHASES OF GOODS AND SERVICES, NATIONAL DEFENSE (ANNUAL RATE, BILLIONS OF DOLLARS)					AVERAGE	264-R. CHANGE IN FED. GOVT. PURCHASES OF GOODS AND SERVICES, NATIONAL DEFENSE (ANNUAL RATE, BILLIONS OF DOLLARS)					DIFFERENCE <sup>1</sup>
1945.....	...	...	...	...	...	1945.....	...	...	...	...	...
1946.....	20.4	14.4	12.0	12.3	14.8	1946.....	...	-6.0	-2.4	0.3	...
1947.....	9.4	8.9	8.6	9.3	9.0	1947.....	-2.9	-0.5	-0.3	0.7	-5.8
1948.....	9.8	10.3	10.6	12.0	10.7	1948.....	0.5	0.5	0.3	1.4	1.7
1949.....	12.7	13.4	13.6	13.1	13.2	1949.....	0.7	0.7	0.2	-0.5	2.5
1950.....	12.4	12.5	14.1	16.0	14.0	1950.....	-0.7	0.1	1.6	2.8	0.8
1951.....	24.0	30.3	37.7	42.0	33.5	1951.....	7.1	6.3	7.4	4.3	19.5
1952.....	42.4	45.6	46.0	48.5	45.8	1952.....	0.4	3.2	1.3	1.6	12.3
1953.....	49.1	49.5	49.3	47.5	48.6	1953.....	0.6	0.4	-1.2	-0.8	2.8
1954.....	44.3	41.9	39.8	38.4	41.1	1954.....	-3.2	-2.4	-2.1	-1.4	-7.5
1955.....	38.6	38.1	39.1	39.0	38.4	1955.....	0.2	-0.5	1.0	-1.1	-2.7
1956.....	38.3	40.3	40.2	41.9	40.2	1956.....	0.3	2.0	-0.1	1.7	1.8
1957.....	43.3	43.0	44.6	44.3	44.0	1957.....	1.4	0.6	0.7	-0.3	3.8
1958.....	44.5	45.4	45.0	46.5	45.6	1958.....	0.2	0.9	0.5	0.6	1.6
1959.....	46.1	45.5	45.6	45.1	45.6	1959.....	-0.4	-0.6	0.1	-0.5	0.0
1960.....	45.0	46.7	46.8	45.5	46.5	1960.....	-1.2	-0.1	1.0	0.5	-1.1
1961.....	46.0	47.7	47.8	47.5	47.0	1961.....	0.7	0.7	0.1	1.7	2.5
1962.....	50.0	51.5	51.1	50.9	51.1	1962.....	2.4	0.4	-0.7	-0.2	4.1
1963.....	50.2	50.5	50.2	50.3	50.3	1963.....	-0.7	0.3	-0.3	0.1	-0.8
1964.....	49.8	49.5	49.0	47.9	49.0	1964.....	-0.5	-0.3	-0.6	-1.0	-1.3
1965.....	47.1	48.3	49.3	53.1	49.4	1965.....	-0.8	1.2	1.0	3.8	0.4
1966.....	55.1	58.4	62.7	65.0	60.3	1966.....	2.0	3.3	4.3	2.3	10.9
1967.....	69.4	70.4	72.5	73.5	71.5	1967.....	7.5	4.4	1.0	1.0	11.2
1968.....	76.1	77.2	76.7	77.4	76.4	1968.....	2.6	1.1	-0.5	0.7	5.4
1969.....	75.3	75.0	77.1	77.0	76.3	1969.....	-2.1	0.3	1.5	-0.1	-0.6
1970.....	75.8	72.0	72.7	72.7	73.5	1970.....	-1.2	-2.9	-0.2	0.0	-2.8
1971.....	72.0	70.1	67.0	70.0	70.2	1971.....	-0.7	-1.0	-1.2	1.1	-3.3
1972.....	74.7	74.4	71.7	73.3	73.5	1972.....	4.7	-0.3	-2.7	1.6	3.3
1973.....	74.0	75.0	72.5	74.2	73.4	1973.....	0.7	-1.0	-0.7	1.9	-0.1
1974.....	74.8	75.0	76.4	80.5	77.8	1974.....	0.6	1.0	2.6	2.1	4.0
1975.....						1975.....					
1976.....						1976.....					
1977.....						1977.....					

Note: These series contain revisions beginning with 1946.

<sup>1</sup>Year-to-year differences are computed from annual data.

(March 1976)



# Appendix C. HISTORICAL DATA—Continued

Year	Quarterly				Annual	Year	Quarterly				Annual		
	I Q	II Q	III Q	IV Q			I Q	II Q	III Q	IV Q			
546. TRANSFERS UNDER U.S. MILITARY AGENCY SALES CONTRACTS (EXPORTS), NOT SEAS. ADJ. (MILLIONS OF DOLLARS)						TOTAL	547. TRANSFERS UNDER U.S. MILITARY AGENCY SALES CONTRACTS (EXPORTS), SEASONALLY ADJ. (MILLIONS OF DOLLARS)						TOTAL
1953.....	...	...	...	...	192	1953.....	...	...	...	...	...		
1954.....	...	...	...	...	182	1954.....	...	...	...	...	...		
1955.....	...	...	...	...	200	1955.....	...	...	...	...	...		
1956.....	...	...	...	...	161	1956.....	...	...	...	...	...		
1957.....	...	...	...	...	375	1957.....	...	...	...	...	...		
1958.....	...	...	...	...	300	1958.....	...	...	...	...	...		
1959.....	...	...	...	...	302	1959.....	...	...	...	...	...		
1960.....	58	122	60	85	335	1960.....	71	89	88	96	344		
1961.....	71	150	89	93	402	1961.....	86	112	111	94	394		
1962.....	96	228	127	206	657	1962.....	110	189	154	204	757		
1963.....	166	243	103	145	657	1963.....	187	195	127	147	656		
1964.....	198	187	162	201	747	1964.....	207	151	192	198	748		
1965.....	200	225	104	211	830	1965.....	207	188	229	207	831		
1966.....	193	257	172	207	829	1966.....	196	214	203	217	820		
1967.....	328	287	208	327	1,152	1967.....	329	239	242	341	1,151		
1968.....	299	415	330	340	1,302	1968.....	302	343	392	356	1,393		
1969.....	395	380	415	338	1,529	1969.....	412	327	452	357	1,546		
1970.....	268	487	313	433	1,501	1970.....	281	435	387	428	1,531		
1971.....	484	577	433	432	1,926	1971.....	507	506	494	419	1,926		
1972.....	316	321	227	295	1,153	1972.....	332	281	255	295	1,163		
1973.....	332	504	489	1,017	2,342	1973.....	347	455	531	1,009	2,342		
1974.....	639	738	716	852	2,944	1974.....	663	678	766	837	2,964		
1975.....	...	...	...	...	...	1975.....	...	...	...	...	...		
1976.....	...	...	...	...	...	1976.....	...	...	...	...	...		
696. U.S. GOVT. CASH RECEIPTS ASSOCIATED WITH MILITARY SALES CONTRACTS, NOT SEAS. ADJ. (MILLIONS OF DOLLARS)						TOTAL	697. U.S. GOVT. CASH RECEIPTS ASSOCIATED WITH MILITARY SALES CONTRACTS, SEASONALLY ADJ. (MILLIONS OF DOLLARS)						TOTAL
1960.....	248	83	66	112	509	1960.....	255	82	112	60	509		
1961.....	58	95	82	105	340	1961.....	58	103	140	94	397		
1962.....	124	113	125	317	679	1962.....	119	131	194	235	679		
1963.....	247	233	136	379	995	1963.....	231	266	216	292	995		
1964.....	361	116	152	358	987	1964.....	344	149	233	261	987		
1965.....	242	341	175	328	1,086	1965.....	226	371	254	230	1,081		
1966.....	258	125	173	371	927	1966.....	247	149	253	279	929		
1967.....	347	397	112	167	1,023	1967.....	343	418	195	67	673		
1968.....	185	274	142	365	966	1968.....	213	281	220	243	957		
1969.....	235	318	290	591	1,433	1969.....	268	318	389	462	1,437		
1970.....	207	207	182	265	861	1970.....	260	202	252	141	855		
1971.....	204	270	214	358	1,046	1971.....	264	263	275	244	1,046		
1972.....	237	374	325	456	1,392	1972.....	278	374	357	383	1,492		
1973.....	520	544	610	616	2,200	1973.....	566	552	617	555	2,290		
1974.....	499	645	996	817	2,957	1974.....	544	653	992	762	2,957		
1975.....	...	...	...	...	...	1975.....	...	...	...	...	...		
1976.....	...	...	...	...	...	1976.....	...	...	...	...	...		
547. DIRECT DEFENSE EXPENDITURES (IMPORTS) NOT SEASONALLY ADJUSTED (MILLION DOLLARS)						TOTAL	F13. NATIONAL DEFENSE PURCHASES AS A PERCENT OF GROSS NATIONAL PRODUCT <sup>1</sup> (PERCENT)						AVERAGE <sup>2</sup>
1945.....	...	...	...	...	...	1945.....	...	...	...	...	...		
1946.....	...	...	...	...	493	1946.....	10.3	7.0	5.6	5.6	7.1		
1947.....	...	...	...	...	455	1947.....	4.2	3.9	3.7	3.7	4.0		
1948.....	...	...	...	...	799	1948.....	3.9	4.0	4.0	4.5	4.1		
1949.....	...	...	...	...	671	1949.....	4.9	5.2	5.3	5.1	5.1		
1950.....	...	...	...	...	576	1950.....	4.6	4.5	4.8	5.5	4.9		
1951.....	...	...	...	...	1,270	1951.....	7.5	9.2	11.3	12.4	10.1		
1952.....	...	...	...	...	2,054	1952.....	12.4	13.4	13.5	13.5	13.2		
1953.....	...	...	...	...	2,615	1953.....	13.4	13.4	13.1	13.1	13.3		
1954.....	...	...	...	...	2,642	1954.....	12.2	11.6	10.9	10.2	11.2		
1955.....	...	...	...	...	2,901	1955.....	10.0	9.6	9.7	9.3	9.6		
1956.....	...	...	...	...	2,949	1956.....	9.3	9.7	9.5	9.7	9.6		
1957.....	...	...	...	...	3,216	1957.....	9.9	10.0	10.0	10.0	9.9		
1958.....	...	...	...	...	3,435	1958.....	10.2	10.3	10.1	10.0	10.2		
1959.....	...	...	...	...	3,107	1959.....	9.7	9.3	9.4	9.1	9.4		
1960.....	781	769	801	737	3,087	1960.....	8.7	8.6	8.9	9.0	8.8		
1961.....	786	781	795	727	2,989	1961.....	9.1	9.0	8.0	9.0	9.0		
1962.....	770	763	761	810	3,105	1962.....	9.2	9.1	9.0	8.9	9.1		
1963.....	763	748	726	725	2,961	1963.....	8.7	8.6	8.4	8.2	8.5		
1964.....	747	737	699	697	2,880	1964.....	8.0	7.8	7.6	7.4	7.7		
1965.....	676	719	763	794	2,952	1965.....	7.1	7.1	7.1	7.4	7.2		
1966.....	877	925	975	987	3,764	1966.....	7.5	7.8	8.3	8.4	8.0		
1967.....	1,085	1,075	1,106	1,112	4,378	1967.....	8.9	9.0	9.0	9.0	9.0		
1968.....	1,103	1,112	1,147	1,173	4,535	1968.....	9.1	9.0	8.7	8.7	9.0		
1969.....	1,198	1,187	1,221	1,251	4,856	1969.....	8.2	8.1	8.1	8.1	8.2		
1970.....	1,178	1,259	1,211	1,208	4,855	1970.....	7.9	7.5	7.3	7.3	7.5		
1971.....	1,174	1,206	1,203	1,236	4,819	1971.....	7.0	6.6	6.4	6.4	6.6		
1972.....	1,222	1,272	1,195	1,185	4,784	1972.....	6.6	6.4	6.1	6.0	6.3		
1973.....	1,174	1,236	1,072	1,177	4,658	1973.....	5.8	5.7	5.5	5.5	5.6		
1974.....	1,166	1,324	1,279	1,335	5,103	1974.....	5.5	5.4	5.5	5.6	5.5		
1975.....	...	...	...	...	...	1975.....	...	...	...	...	...		
1976.....	...	...	...	...	...	1976.....	...	...	...	...	...		

Note: Unless otherwise noted, these series contain no revisions but are reprinted for the convenience of the user.

(March 1976)

<sup>1</sup>This series contains revisions beginning with 1946.

<sup>2</sup>Annual figures are computed from annual data for series 200 and 264.



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ALPHABETICAL INDEX—SERIES FINDING GUIDE

Series title	Series number	Current issue (page numbers)		Historical data (issue date)	Series descriptions (issue date)	Series title	Series number	Current issue (page numbers)		Historical data (issue date)	Series descriptions (issue date)
		Charts	Tables					Charts	Tables		
Accession rate, defense products industries	654	8	21	4/75	4/73	Hours, defense products industries	673	10	23	5/75	4/73
Aerospace industries						Inventories, manufacturers'					
Manufacturers' new orders from U.S. Government	650	See New orders.				Defense products	659	9	22	8/75	2/73
Manufacturers' shipments to U.S. Government	689	See Shipments.				Defense products industries	658	9	...	1/72	2/73
Manufacturers' unfilled orders from U.S. Government	664	See Unfilled orders.				Ratio to shipments, defense products	693	12	26	8/75	2/73
						Ratio to shipments, defense products industries	682	12	...	11/72	2/73
Balance of payments (defense-related)						Layoff rate, defense products industries	655	8	21	4/75	4/73
Cash receipts associated with military sales contracts	696	13	27	3/76	10/73						
Direct defense expenditures	547	13	27	3/76	10/73	Military personnel, Defense Department	677	10	24	8/75	8/68
Transfers under military agency sales contracts	546	13	27	3/76	10/73	Military prime contract awards—See Contract awards.					
Budget outlays for national defense function	683	See Outlays.				Net outlays, Defense Department—See Outlays.					
						New orders, manufacturers'					
Cash receipts associated with military sales contracts	696	See Balance of payments.				Defense products	648	7	20	8/75	2/73
Civilian personnel, Defense Department	678	10	24	8/75	8/68	Defense products industries	647	7	...	11/72	2/73
Compensation						From Government, aerospace industries	650	8	20	5/75	2/73
Payrolls, aggregate weekly, defense products industries	675	10	23	5/75	4/73	Obligations incurred, gross					
Personnel compensation, Defense Department	685	11	25	5/75	8/68	Defense Department, operations	619	...	15	4/75	8/68
Contract awards, military prime						Defense Department, procurement	621	6	15	1/75	8/68
Aircraft	626	...	16	7/75	8/68	Defense Department, total	617	6	15	4/75	8/68
Civilian Health and Medical Program	638	...	19	7/75	...	Outside Government for national defense	623	6	16	4/75	10/73
Combat vehicles	631	...	17	7/75	8/68	Obligations outstanding, gross unpaid					
Construction	634	...	18	7/75	8/68	Defense Department, operations	644	...	20	4/75	8/68
Contracts under \$10,000	636	...	19	7/75	8/68	Defense Department, procurement	645	...	20	4/75	8/68
Educational and nonprofit institutions	637	...	19	7/75	8/68	Defense Department, total	643	7	20	4/75	8/68
Electronic and communications equipment	630	...	17	7/75	8/68	Operations, Defense Department					
Missile and space systems	627	...	16	7/75	8/68	Net outlays	681	See Outlays.			
Other hard goods	632	...	18	7/75	8/68	Obligations incurred	619	See Obligations incurred.			
Services	635	...	18	7/75	8/68	Unpaid obligations outstanding	644	See Obligations outstanding.			
Ships	628	...	17	7/75	8/68	Orders—See New orders and Unfilled orders.					
Soft goods	633	...	18	7/75	8/68	Outlays					
Total	625	7	16	7/75	8/68	Budget outlays for national defense function	683	11	25	5/75	10/73
Weapons and ammunition	629	...	17	7/75	8/68	Defense Department, operations	681	...	24	5/75	8/68
Work outside the U.S.	640	...	19	7/75	8/68	Defense Department, procurement	682	11	25	5/75	8/68
						Defense Department, total	680	11	24	5/75	8/68
Defense and space equipment, output	657	See Output of defense and space equipment.				Output of defense and space equipment	657	9	22	8/75	10/73
Defense Department						Overtime hours, defense products industries	653	8	21	4/75	4/73
Gross obligations incurred—See Obligations incurred.						Payrolls, aggregate weekly, defense products industries	675	See Compensation.			
Gross unpaid obligations outstanding—See Obligations outstanding.						Personnel—See Civilian personnel and Military personnel.					
Obligations outstanding.						Personnel compensation, Defense Department	685	See Compensation.			
Military prime contract awards—See Contract awards.						Procurement, Defense Department					
Net outlays—See Outlays.						Net outlays	682	See Outlays.			
Personnel—See Civilian personnel and Military personnel.						Obligations incurred	621	See Obligations incurred.			
Personnel compensation	685	See Compensation.				Unpaid obligations outstanding	645	See Obligations outstanding.			
Progress payments outstanding	666	See Progress payments.				Progress payments outstanding, Defense Department	666	9	22	5/75	8/68
Direct defense expenditures	547	See Balance of payments.				Purchases of goods and services for national defense	264	See Gross national product.			
Employment						Shipments, manufacturers'					
Accession rate, defense products industries	654	See Accession rate.				Defense products	688	12	26	8/75	2/73
Employment, production workers, defense products industries	671	10	23	5/75	4/73	Defense products industries	687	12	...	11/72	2/73
Employment, total, defense products industries	670	10	22	5/75	4/73	Ratio, inventories to shipments, defense products	693	See Inventories.			
Hours, defense products industries	673	See Hours.				Ratio, inventories to shipments, defense products industries	692	See Inventories.			
Layoff rate, defense products industries	655	See Layoff rate.				Ratio, unfilled orders to shipments, defense products	691	See Unfilled orders.			
Overtime hours, defense products industries	653	See Overtime hours.				Ratio, unfilled orders to shipments, defense products industries	690	See Unfilled orders.			
Personnel—See Civilian personnel and Military personnel.						To Government, aerospace industries	689	12	26	5/75	2/73
Expenditures—See Outlays.						Transfers under military agency sales contracts	546	See Balance of payments.			
Federal purchases of goods and services for national defense	264	See Gross national product.				Unfilled orders, manufacturers'					
						Defense products	661	9	22	8/75	2/73
Gross national product						Defense products industries	680	9	...	7/71	2/73
Federal purchases of goods and services for national defense	264	5	14	3/76	10/73	From Government, aerospace industries	664	9	22	5/75	2/73
Gross national product	200	5	14	3/76	10/73	Ratio to shipments, defense products	691	12	26	8/75	2/73
National defense purchases as percent of GNP	613	5	14	3/76	10/73	Ratio to shipments, defense products industries	690	12	...	11/72	2/73
Gross obligations incurred—See Obligations incurred.						Unpaid obligations outstanding—See Obligations outstanding.					
Gross unpaid obligations outstanding—See Obligations outstanding.											



